EXHIBIT D ENGINEERING ASSESSMENT - ASSET INVENTORY



WILLISTOWN TOWNSHIP SEWERAGE FACILITIES ENGINEERING ASSESSMENT AND ORIGINAL COST

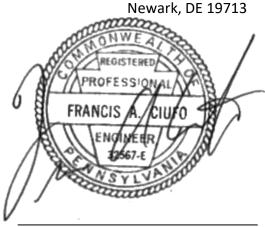
Willistown Township Chester County, PA

Prepared for:

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WLTPX20104 July 6, 2021

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APPENDICES

APPENDIX A – SYSTEM MAPPING

• A1 – Sanitary Sewer System Map

APPENDIX B

- Uniform System of Accounts Section 300
- PA ACT 12 of 2016

1. EXECUTIVE SUMMARY

As required by PA Act 12 of 2016 and following the guidelines of the "Uniform System of Accounts for Class A Wastewater Utilities", an assessment of the tangible assets of facilities and equipment of the Willistown Township wastewater utility is prepared as part of the asset purchase agreement with Aqua Pennsylvania Wastewater, Inc. (AQUA). Each facility and class of equipment was coded based on Section 300 of the "Wastewater Utility Plant Accounts" of the Guidelines. The Asset Survey included a wastewater treatment plant with spray irrigation fields and aeration lagoons, six pump stations, two booster stations, associated force mains and pressure mains, and approximately 25 miles of gravity sewers. Asset cost information was derived from various sources. Site visits to each of the facilities were conducted to inventory the equipment and assess conditions.

Site inventories and facility conditions were documented on facility information sheets and summarized in the facility description summaries.

Conditions of the wastewater treatment facility, pump stations, and booster stations vary from fair to very good based on the age and/or completion of recent improvements.

Gravity sewer and force main conditions were not determined. The piping installation period ranges from 1977 to 2020.

A complete list of the assets and original costs is provided in Section 9 of this report.



2. PURPOSE OF REPORT

The purpose of this report is to "conduct an assessment of the tangible assets of the selling utility" per the requirements of PA Act 12 of 2016.

This engineering assessment will be used by the Utility Valuation Experts (UVEs) retained by both the seller (Willistown Township) and buyer (AQUA). The engineering assessment followed the practices and procedures of the Public Utility Commission (PUC) and National Association of Regulatory Utility Commissioners (NARUC) Systems of Accounts. The engineering assessment report documents the conditions and original costs of Willistown Township's assets that will be used as the common list for the UVEs to develop their appraisal of the system.

The report preparation process included meeting with key Township and AQUA representatives to identify and confirm specific information needed to support the assessment and to prepare the report, providing a mutually agreed upon scope of work with Willistown Township and AQUA. The inventory is a compilation of data gathered by Pennoni, developed from available records, maps, work orders, payment records from construction projects, site evaluations, and other sources to provide an inventory and listing.

This report contains the following:

- An inventory of the used and useful assets to be transferred, compiled by year and account (codes).
- Identification of facilities being held for future use (if any).
- A list of non-depreciable property such as land and rights-of-way.
- A review of system components, plans, and reports of key facilities. This includes:
 - Permitted discharges, including regulatory requirements
 - Penn's Preserve Wastewater Treatment Plant (WWTP), including spray fields and aeration lagoons
 - Pumping Stations (6 each) and Booster Stations (2 each), including force mains and pressure systems
 - Gravity collection system
- Summary of the operation and maintenance expenses based upon review of Willistown Township operating records.
- An assessment of the identified assets.
- Determination and/or establishment of an original cost of construction for each asset.

Assets were identified through various sources. Gravity sewer and force main sizes and quantities were taken from Construction Escrow Releases/Estimates, Township Sewer System Mapping, and



Land Development Plans. The Wastewater Treatment Plant and Pump Stations were field inventoried and evaluated; and supplemented with information obtained from drawings, where available. Asset costs are based on Construction Escrow Releases/Estimates where available or estimated current cost and back calculated to the year of installation using the ENR Construction Cost Index.

A coding system as described in Section 300 of the Uniform System of Accounts for Class A Wastewater Utilities was used for classifying various assets. Section 300, as well as the listing of codes, can be found in Appendix B.



3. SYSTEM DESCRIPTION

System Summary

Willistown Township, Chester County, PA borders Malvern, East Whiteland, and Tredyffrin Townships to the north; Newtown and Edgmont Townships in Delaware County to the south; Easttown and Tredyffrin Townships to the east; and East Goshen and Westtown Township to the west.

Willistown Township is responsible for the safe collection and transmission of an average of 1.305 million gallons per day (MGD) of wastewater generated in southeastern Pennsylvania (A map of the service areas is located in Appendix A, Figure A1). The wastewater system in the Township consists of approximately 25 miles of gravity collectors and interceptors ranging in size from 8 to 18 inches diameter, approximately 9 miles of low pressure sewer piping ranging in size from 1-1/2 to 4 inches diameter, approximately 5 miles of force mains ranging in size from 2 to 14 inches diameter, the Penn's Preserve WWTP spray field irrigation system and aeration lagoons, six Township-owned sewage pumping stations, two Township-owned booster pump stations, and one undedicated pumping station that is permitted to discharge to the Township's sewer system. Apart from the pumping station that is undedicated, the wastewater systems are owned, operated, and maintained by Willistown Township. No properties are held for future use. Wastewater from the Willistown Chase and Penn's Preserve subdivisions are conveyed to the Penn's Preserve WWTP. All other wastewater is conveyed via the Valley Creek Trunk Sewer (VCTS) through Tredyffrin and Easttown Townships to the Valley Forge Sewer Authority (VFSA) Wastewater Treatment Plant in Schuylkill Township for treatment. In addition, flows from East Whiteland Township and Malvern Borough are conveyed through Willistown to the VCTS and VFSA.

There are approximately 2,405 EDUs connected to the Township's sewer system as direct customers of Willistown Township. Of these customers, about 2,215 EDUs are treated by VFSA, and 190 EDUs are treated by the Penn's Preserve WWTP. There are also three intermunicipal connections in which wastewater is conveyed through the Township's sewer system via intermunicipal conveyance agreements with Willistown.

According to Willistown's 2020 Chapter 94 Report, the average annual flow for the Township was 1.305 MGD, which is 90.8% of the Township's allocated capacity of 1.438 MGD at the VFSA WWTP. The 2020 monthly average daily flow decreased by about 10% from 2019. The flow reduction is attributed to the completion of sewer system repairs. Willistown's long term (January 2015 to December 2020) monthly average daily flow is 1.228 MGD.



Drainage Areas

The Willistown sewer system has five major drainage areas in which wastewater discharges through adjacent townships to the VFSA and one drainage area in which wastewater is discharged to the Penn's Preserve WWTP.

The Tredyffrin Township 1 drainage area accounts for approximately 97% of all Willistown flow to the VCTS. Five Township-owned pump stations – Pump Station #1, Pump Station #2, Pump Station #3, Pump Station #4, and Dovecote Pump Station – two Township-owned booster pump stations – Booster Pump Station #1 and Booster Pump Station #2 – and one undedicated pump station – Devereux Pump Station – are located in this drainage area. All wastewater from this drainage area is conveyed through gravity and pressure systems to the gravity sewer on North Cedar Hollow Road, where they are metered at the Cedar Hollow meter, and then to the VCTS in Tredyffrin Township.

The Tredyffrin Township 2 drainage area connects seven unmetered EDUs to the Tredyffrin Township sewer system. All flows are conveyed through a gravity interceptor along West Central Avenue, where flows are unmetered prior to flowing into Tredyffrin's system.

The Tredyffrin Township 3 drainage area directly connects 56 unmetered EDUs to the Tredyffrin Township sewer system. All flows are conveyed through a gravity interceptor along Plank Avenue, Paoli Pike, Richmond Drive, Wistar Road, and Cobblestone Drive, where flows are unmetered prior to flowing into Tredyffrin's system.

All wastewater flows from the Easttown Township 1 drainage area are conveyed through the gravity sewer on Weatherstone Drive to Easttown Township, where they are metered at the Pheasant Run flow meter on Pheasant Run Drive before entering the sewer system in Easttown Township.

The Easttown Township 2 drainage area directly connects one unmetered EDU to the Easttown Township sewer system. All flows are conveyed through a gravity interceptor, where flows are unmetered prior to flowing into Easttown's system.

The Penn's Preserve drainage area connects approximately 190 EDUs from the Willistown Chase and Penn's Preserve subdivisions to the Penn's Preserve WWTP. One Township owned pump station – Pump Station #5 – is located in this drainage area. All wastewater flows are conveyed through a gravity sewer to Pump Station #5, located on the eastbound side of West Chester Pike (Route 3), and directly pumped to the aeration lagoons across the street at Penn's Preserve WWTP for treatment.



4. INVENTORY OF ASSETS

4.1. PENN'S PRESERVE WASTEWATER TREATMENT PLANT

Facility Description (see attached Information Sheet)

The Penn's Preserve Wastewater Treatment Plant was built in 1997-1998 and is located on the Okehocking Preserve on lands owned by the Township. The system consists of the following components:

- One Aerated Lagoon, One Storage Lagoon
- 3 Floating Aerators
- 3 Spray Pumps
- Service Building
- Sodium Hypochlorite Disinfection System
- Spray Irrigation System

Lagoon System

The treatment lagoon system consists of one 2,230,000-gallon aerated lagoon. Aeration is supplied by three 5 HP Environmental Equipment Engineering Model FA1805 floating aerators. The lagoon is divided into two chambers with a floating baffle manufactured by ThermaFab. The average detention time is 28 days. From the aeration lagoon, the treated wastewater flows to a 4,500,000-gallon storage lagoon. From the storage lagoon, the treated water is pumped to spray fields.

Spray Irrigation System

Flow for the spray irrigation system is provided by two 25 HP and one 10 HP Gould inline centrifugal pumps. The pumps can deliver 300 GPM and 100 GPM, respectively. The pumps supply flow to two separate spray irrigation fields located on Township property east of the lagoon system. The fields are 6.81 acres and 2.15 acres for a total of 8.96 acres.

Distribution of the water is via Rainbird Model 30WSH sprinklers which utilize an RFN-3-75 spray nozzle. Each sprinkler unit is rated for 7.5 GPM at 50 PSI and has a spray arc of 100 ft. diameter. There are a total of 54 sprinkler units.

Disinfection system

The discharge to the spray field is pretreated with a Sodium Hypochlorite solution supplied by a LMI Model B721-490S dosing pump. The liquid is stored in 55-gallon drums.



Service Building

The Service Building (20 ft x 25 ft) is constructed of concrete blocks, stone façade and an asphalt shingled roof. The interior consists of the spray irrigation pumps, florescent lighting, electric unit heater, vent, chemical dosing equipment and a 30-gallon electric water heater. A laboratory table with standard glassware and reagents is located along one wall.

The building equipment is powered by a 600-amp Square D service MCC and a 35 KVA transformer.





Figure 1 – Irrigation Pump House



Figure 2 – Aeration Lagoon



Figure 3 – Storage Lagoon



Figure 4 – Bar Screen at Aeration Lagoon





Figure 5 – Spray Irrigation Pumps



Figure 6 – Pump Control Panel



Figure 7 – Spray Irrigation Pumps



Figure 8 – Lab Table and Supplies





Figure 9 – Chemical Feed System



Figure 10 – Sodium Hypochlorite Drum



Figure 11 – Sampling Unit

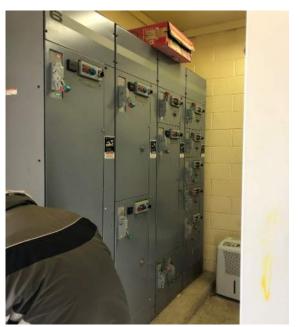


Figure 12 – Motor Control Center



4.2. PUMP STATIONS

Pump Station #1

Facility Description (see attached Information Sheet)

Pump Station #1 is located at 66 Devon Road. The pump station is equipped with two submersible Flygt NT-3127.060 pumps with a 200 GPM permitted peak flow controlled with soft starts. Wastewater is discharged through an 820 LF 4-inch ductile iron force main that ties into the Township's existing sewage collection system at Manhole 2-83 at the intersection of Devon Road and Cedar Hollow Road. The pump station was originally installed in 1977 with pump upgrades performed in 2015.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (11.5 ft x 8 ft deep). The control panel is manufactured by Primex. There are two 4-inch check valves and two 4-inch gate valves. The influent line to the wet well contains a Franklin Miller grinder operated via a 3 HP hydraulic power pack. The station has a Sparling TigerMagEP flow meter and an ISCO chart recorder.

The building (300 SF) is constructed of brick exterior with CMU interior and a fiberglass shingle roof in fair condition. The building contains overhead fluorescent lighting, one fiberglass double door, and one single fiberglass door.

The generator is an Onan 45 KW unit with two propane tanks. The Automatic Transfer Switch (ATS) is manufactured by Westinghouse.

The entire property is surrounded by approximately 160 LF of chain link fence. The facility has an inactive blower system for odor control.

Property Condition

The building and all mechanical and electrical equipment are in fair to good condition.





Figure 1 – Building Exterior



Figure 3 – Soft Starts



Figure 2 – Submersible Pumps



Figure 4 – Franklin Miller Grinder Controls

PUMP STATIC)N			Scheduled Visit Date:	2/17/2021	
Station Name		Pump Station #1	Phone #		2, 2., 2021	1
Location		66 Devon Rd, Malvern, PA		L		
Start Up Date		1977				
CODE	SUBCODE	PUMP STATION				COMMENTS
371.3		PUMP(S)				
371.3		Condition				
		No. of Pumps	2			
		Туре	SUBMERSIBLE			
		Pump Manufacturer	XYLEM			
-		Pump Model Number	FLYGT NT-3127.060			
		Year Installed	2015			
-		Pump GPM	200 58			
		Pump TDH Ft. Outlet Size	58 4"			
		Motor HP	7.5			
		Motor Voltage	230			
371.3		Pump Control (VFD?)	SQUARE D SOFT START			
370.3		WET WELL	30071112 25 301 1 3171111			
3,3.3		Condition				
		Size	11.5' x 8' DEEP			
		Material	CONCRETE			
		Lined				
		Hatch				
		Vent				
		Rails				
		Cable				
		Piping				
371.3		CONTROL PANEL				
		Manufacturer	PRIMEX			
-		Year Installed	1977			
264		Model/Serial number	MICRO VPAC II			
361		INFLUENT PIPING (IF KNOWI				
-		Material Diameter	VP 8"			
371		GRINDER	0			
371		Manufacturer	FRANKLIN MILLER			
		Model/Serial number	TM8532			
		HP	3			
		Year Installed	-			
371		CRAIN/HOIST				
		Manufacturer	CM			
		Model/Serial number				
		Year Installed				
360		VALVE VAULT				
		Туре	CHECK VALVE	GATE VALVE		
<u> </u>		Manufacturer	KENNEDY	KENNEDY		
-		Size	4"	4"		
—		# Voor Installed	2	2		
355		Year Installed GENERATOR				
333		Manufacturer	ONAN			
 		Generator KW	45			
		Generator KVA	56			
		Fuel Tank (Gals)	PROPANE			
355		ATS (manf/model #)	WESTINGHOUSE			
555		Year Installed	1977			
360		FORCE MAIN				
		Force Main Size	4"			
		Force Main Mat.	DIP			
		Length in Feet	820 LF			
		Year Installed	1977			
		Discharge Point	MH 2-83			
1		Discharge Point Location				

354.2	BUILDING				
	Condition				
	Size	300 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	ELECTRICAL				
371.3	MCC	WESTINGHOUSE			
396	Alarm System (manf/ model)	PRIMEX/MICRO-VPAC II			COMMENTS
	Year Installed	1977			
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING TIGERMAGEP			
364	Chart Recorder	ISCO 4501 PS MONITOR			
354.3	Hydrants				
	GROUNDS				
354.3	Fence Length	160 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	ODOR CONTROL				
	Manufacturer	GENERAL ELECTRIC			
	Туре	BLOWER			
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIPT	ION OF FACILITY	
	Vac Truck Suitable				·
	Spare Parts				
	Vac Truck Suitable				·

Pump Station #2

Facility Description (see attached Information Sheet)

Pump Station #2 is located at 42 Devon Road and is equipped with two submersible Flygt NT-3153.185 pumps with a permitted peak flow of 700 GPM controlled with soft starts. Wastewater is discharged through a 1,555 LF force main, starting as 4-inch ductile iron at the pump station, transitioning to 8-inch ductile iron along Devon Road before it ties into the Township's existing sewage collection system at Manhole 2-212 at the intersection of Devon Road and Grubb Road. The pump station was originally installed in 1977 with pump upgrades performed in 2015.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (11.5 ft x 8 ft deep). The control panel is manufactured by Westinghouse. There are two 6-inch gate valves and two 6-inch check valves. The influent line to the wet well contains a Franklin Miller grinder operated via a 3 HP hydraulic power pack. The station has a Sparling TigerMagEP flow meter and a ISCO chart recorder.

The building (550 SF) is constructed of brick exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting, a fiberglass double door, and one single fiberglass door.

The Generator is an Onan 55 KW unit with two propane tanks. The Automatic Transfer Switch (ATS) is manufactured by Westinghouse.

The entire property is surrounded by approximately 160 LF of chain link fence. The facility has an inactive blower system for odor control.

Property Condition

The building and all mechanical and electrical equipment are in fair to good condition.





Figure 1 – Building Exterior



Figure 3 – Wet Well Exterior



Figure 2 – Submersible Pumps



Figure 4 – Generator



PUMP STATI	ON			Scheduled Visit Date:	2/17/2021	ıl
Station Name		Pump Station #2	Phone #		2, 2., 2021	
Location		42 Devon Rd, Malvern, PA	· L	·L		
Start Up Date	e	1977				
CODE	SUBCODE	PUMP STATION				COMMENTS
371.3		PUMP(S)				
371.3		Condition				
		No. of Pumps	2			
		Туре	SUBMERSIBLE			
		Pump Manufacturer	XYLEM			
		Pump Model Number	FLYGT NT-3153.185			
		Year Installed	2015			
		Pump GPM	700			
		Pump TDH Ft.	52			
		Outlet Size	4"			
		Motor HP	15			
271.2		Motor Voltage	230 SQUARE D - SOFT START			
371.3 370.3		Pump Control (VFD?) WET WELL	SQUARE D - SUFT START			
370.3		Condition				
		Size	11.5' x 8' DEEP			
		Material	CONCRETE	+		
		Lined	CONCILLE			
		Hatch				
		Vent				
		Rails				
		Cable				
		Piping				
371.3		CONTROL PANEL				
		Manufacturer	WESTINGHOUSE			
		Year Installed	1977			
		Model/Serial number				
361		INFLUENT PIPING (IF KNOWI	<u>N)</u>			
		Material	DIP			
		Diameter	8"			
371		GRINDER				
		Manufacturer	FRANKLIN MILLER			
		Model/Serial number	TM8532			
		HP	3			
274		Year Installed				
371		CRAIN/HOIST	BAH 18/81 H/FF			
		Manufacturer Model/Serial number	MILWAUKEE 2 TON			
		Year Installed	Z TUN	+		
360		VALVE VAULT				
300		Type	CHECK VALVE	GATE VALVE		
		Manufacturer	KENNEDY	KENNEDY		
		Size	6"	6"		
		#	2	2		
		Year Installed				
355		GENERATOR				
		Manufacturer	ONAN			
		Generator KW	55			
		Generator KVA	69			
		Fuel Tank (Gals)	PROPANE			
355		ATS (manf/model #)	WESTINGHOUSE			
		Year Installed	1977			
360		FORCE MAIN				
		Force Main Size	8"			
		Force Main Mat.	DIP			
		Length in Feet	1555 LF			
		Year Installed	1977			
		Discharge Point	MH 2-212			ļ
		Discharge Point Location				

354.2	BUILDING				
	Condition				
	Size	550 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	ELECTRICAL				
371.3	MCC	WESTINGHOUSE			
396	Alarm System (manf/ model)	CONSOLIDATED ELECTRIC/D	152 CONTROLLER		COMMENTS
	Year Installed	1977			
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING TIGERMAGEP			
364	Chart Recorder	ISCO 4501 PS MONITOR			
354.3	Hydrants				
	<u>GROUNDS</u>				
354.3	Fence Length	160 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	ODOR CONTROL				
	Manufacturer	GENERAL ELECTRIC			
	Туре	BLOWER			
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIPTIO	N OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
_	Vac Truck Suitable				

Pump Station #3

Facility Description (see attached Information Sheet)

Pump Station #3 is located at 7 Pond Lane and is equipped with three submersible Flygt NP-3315 HT3 pumps with a permitted peak flow of 1000 GPM controlled with VFDs. Wastewater is discharged through a 6,264 LF force main, starting as 8-inch ductile iron at the pump station, and transitions to 14-inch ductile iron before it ties into the existing sewage collection system at Manhole 3-40 at the intersection of First Avenue and Grubb Road. The pump station was originally installed in 1977 with generator upgrades performed in 2010 and major pump upgrades performed in 2014.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (16 ft x 9 ft x 7.5 ft deep). The control panel is manufactured by Flygt. There are three 8-inch gate valves and three 8-inch check valves. The influent line to the wet well contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a FloMotion Systems flow meter.

The building (880 SF) is constructed of brick exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting, a fiberglass double door, and a fiberglass single door.

The Generator is a Penn Power Systems 450 KW unit with 875-gallon diesel tank. The Automatic Transfer Switch (ATS) is manufactured by Emerson.

The entire property is surrounded by approximately 225 LF of chain link fence. The facility has an inactive blower system onsite for odor control.

Property Condition

The building and all mechanical and electrical equipment are in good condition.





Figure 1 – Building Exterior



Figure 3 – VFD



Figure 2 – Muffin Monster Controls



Figure 4 – Control Panel

PUMP STATI	ON			Scheduled Visit Date:	2/17/2021	
Station Name		Pump Station #3	Phone #	scrieduled visit Date.	2/17/2021	
Location		7 Pond Ln, Malvern, PA	Thoric "			
Start Up Date	<u> </u>	1977				
CODE	SUBCODE	PUMP STATION				COMMENTS
371.3		PUMP(S)				
371.3		Condition				
		No. of Pumps	3			
		Туре	SUBMERSIBLE			
		Pump Manufacturer	XYLEM			
		Pump Model Number	FLYGT NP-3315.090			
		Year Installed	2014			
		Pump GPM	1000			
		Pump TDH Ft.	263			
		Outlet Size	6"			
		Motor HP	160			
		Motor Voltage	460			
371.3		Pump Control (VFD?)	VFDs			
370.3		WET WELL				
		Condition	401 01			
		Size	16' x 9' x 7.5' DEEP			
		Material	CONCRETE			
		Lined				
		Hatch Vent				
		Rails				
		Cable				
		Piping				
371.3		CONTROL PANEL				
371.3		Manufacturer	FLYGT			
		Year Installed	2014			
		Model/Serial number	MULTISMART			
361		INFLUENT PIPING (IF KNOWN				
		Material	14"			
		Diameter	DIP			
371		GRINDER				
		Manufacturer	MUFFIN MONSTER			
		Model/Serial number	30005-0032			
		HP	3			
		Year Installed				
371		CRAIN/HOIST				
		Manufacturer	CM			
		Model/Serial number	LODESTAR			
250		Year Installed				
360		Tuno	CHECK MAINE	CATEMANE		
		Type Manufacturer	CHECK VALVE	GATE VALVE		
		Size	8"	8"		
		#	3	3		
		Year Installed	,	,		
355		GENERATOR				
333		Manufacturer	PENN POWER SYSTEMS			
		Generator KW	450			
		Generator KVA	2014			
		Fuel Tank (Gals)	875			
355		ATS (manf/model #)	EMERSON/ASCO 4000 SERIE	S		
		Year Installed	2010			
360		FORCE MAIN				
		Force Main Size	14"			
		Force Main Mat.	DIP			
		Length in Feet	6264 LF		<u> </u>	
		Year Installed	1977			
		Discharge Point	MH 3-40			
		Discharge Point Location				

354.2	BUILDING				
	Condition				
	Size	880 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	ELECTRICAL				
371.3	MCC	SCHNEIDER ELECTRIC			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed				
354.3	HVAC				
	Condition				
	Туре	BLOWER			
	Manufacturer	СООК			
	Year Installed				
364	Flow Meter	FLOMOTION SYSTEMS			
364	Chart Recorder				
354.3	Hydrants				
	GROUNDS				
354.3	Fence Length	225 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	ODOR CONTROL				
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIPTI	ON OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

Pump Station #4

Facility Description (see attached Information Sheet)

Pump Station #4 is located at 135 Line Road and is equipped with two submersible ABS K89F-VE1194 pumps with a permitted peak flow of 250 GPM. Wastewater is discharged through a 10,482 LF 6-inch HDPE force main that ties into the Township's existing sewage collection system at Manhole 3-88 at the intersection of School Lane and Long Lane. The pump station was originally installed in 2006.

The wet well is concrete (7 ft dia. x 20 ft deep) with a 4.5 ft x 4 ft double leaf aluminum hatchway. The control panel is manufactured by ABS. There are three 4-inch gate valves and three 4-inch check valves. The influent line to the wet well contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a Sparling flow meter with a Chessell paper chart recorder.

The building (805 SF) is constructed of stone exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting and a hollow metal double door.

The Generator is a Cummins 80 KW unit with diesel tank. The Automatic Transfer Switch (ATS) is manufactured by Cummins.

The entire property is surrounded by approximately 250 LF of chain link fence.

Property Condition

The building and all mechanical and electrical equipment are in good condition.





Figure 1 – Building Exterior



Figure 2 – Wet Well Exterior



Figure 3 – Wet Well Interior



Figure 4 – Generator

PUMP STATI	ON			Scheduled Visit Date:	2/17/2021	
Station Name		Pump Station #4	Phone #	Scheduled visit Date.	2/17/2021	
Location		135 Line Rd, Malvern, PA	i none #			
Start Up Date	2	2006				
		2000				
CODE	SUBCODE	PUMP STATION				COMMENTS
371.3		PUMP(S)				
371.3		Condition				
		No. of Pumps	2			
		Туре	SUBMERSIBLE			
		Pump Manufacturer	ABS			
		Pump Model Number	K89F - VE1194			
		Year Installed	2006			
		Pump GPM	250			
		Pump TDH Ft.	137			
		Outlet Size	4"			
		Motor HP	32			
		Motor Voltage	460			
371.3		Pump Control (VFD?)	FLOAT			
370.3		WET WELL				
		Condition				
		Size	7' DI x 20' DEEP			
		Material	CONCRETE			
		Lined				
		Hatch	4.5' x 4' DOUBLE LEAF ALUN	IINUM HATCH		
		Vent				
		Rails	STAINLESS STEEL			
		Cable	STAINLESS STEEL			
		Piping				
371.3		CONTROL PANEL				
		Manufacturer	ABS			
		Year Installed	2006			
		Model/Serial number				
361		INFLUENT PIPING (IF KNOWI				
		Material	PVC SDR 35			
		Diameter	8"			
371		GRINDER_	1411551111110110755			
		Manufacturer	MUFFIN MONSTER			
		Model/Serial number HP	30005-0012			
-			3			
371		Year Installed	2006			
3/1		CRAIN/HOIST				
		Manufacturer Model/Serial number	+			
		Year Installed				
360		VALVE VAULT				
300		Type	CHECK VALVE	GATE VALVE		
		Manufacturer	CITEOR VALVE	OME VALVE		
		Size	4"	4"		
		#	3	3		
		Year Installed	2006	2006		
355		GENERATOR	2300	2500		
333		Manufacturer	CUMMINS			
		Generator KW	80			
		Generator KVA	100			
		Fuel Tank (Gals)	DIESEL			
355		ATS (manf/model #)	CUMMINS			
		Year Installed	2006			
360		FORCE MAIN				
		Force Main Size	6"			
		Force Main Mat.	HDPE			
		Length in Feet	9789			
		Year Installed	2006			
		Discharge Point	MH 3-88			
		Discharge Point Location				
				·		

354.2	<u>BUILDING</u>				
	Condition				
	Size	805 SF			
	Main Structure Material	STONE			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	2/HOLLOW METAL			
	Lighting (Type)	FLUORESCENT			
	Year Installed	2006			
	ELECTRICAL				
371.3	MCC	SCHNEIDER ELECTRIC			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed	2006			
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING			
364	Chart Recorder	CHESSELL			
354.3	Hydrants				
	<u>GROUNDS</u>				
354.3	Fence Length	250 LF			
	Fence Type	CHAIN LINK			
	Year Installed	2006			
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	ODOR CONTROL				
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIPTI	ON OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

Pump Station #5 – Penn's Preserve

Facility Description (see attached Information Sheet)

Pump Station #5 is located at 5315 West Chester Pike and is equipped with two submersible Flygt NP-3153.095 pumps with a permitted peak flow of 195 GPM. Wastewater is discharged through a 3,169 LF 6-inch PVC force main that discharges directly to the Penn's Preserve WWTP aeration lagoons. The pump station was installed in 1998 with building upgrades performed in 2011 and pump upgrades performed in 2019.

The wet well is concrete (4 ft x 7 ft x 40 ft deep) with a 4 ft x 6 ft aluminum hatchway. The control panel is manufactured by Flygt. There are two 4-inch gate valves and two 4-inch check valves. The effluent line contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a Bailey Fischer Porter paper chart recorder.

The Building (505 SF) is constructed of stone exterior with CMU interior and an asphalt shingle roof in good condition. The building contains overhead fluorescent lighting and a fiberglass double door.

The generator is a Kohler 81 KW unit. The Automatic Transfer Switch (ATS) is manufactured by Kohler.

Property Condition

The building and all mechanical and electrical equipment are in good condition.





Figure 1 – Building Exterior



Figure 3 – Control Panel



Figure 2 – Wet Well Interior



Figure 4 – ATS

PUMP STATI	ON			Scheduled Visit Date:	2/17/2021			
Station Name		Pump Station #5	Phone #		_,,	1		
Location		5315 West Chester Pk, Newton Square, PA						
Start Up Date	e	1998						
CODE	SUBCODE	PUMP STATION				COMMENTS		
371.3		PUMP(S)						
371.3		Condition						
		No. of Pumps	2					
		Туре	SUBMERSIBLE					
		Pump Manufacturer	XYLEM					
		Pump Model Number	FLYGT NP-3153.095					
		Year Installed	2019					
		Pump GPM	195					
		Pump TDH Ft.						
		Outlet Size	4"					
		Motor HP	23					
		Motor Voltage	460					
371.3		Pump Control (VFD?)						
370.3		WET WELL						
		Condition						
		Size	4' x 7' x 40' DEEP					
		Material	CONCRETE					
		Lined						
		Hatch	4' x 6' ALUMINUM HATCH					
		Vent	4" DI	4" DI				
		Rails						
		Cable						
		Piping						
371.3		CONTROL PANEL						
		Manufacturer	FLYGT					
		Year Installed	2019					
		Model/Serial number	MULTISMART					
361		INFLUENT PIPING (IF KNOW						
		Material	DIP					
		Diameter	8"					
371		GRINDER						
		Manufacturer	MUFFIN MONSTER					
		Model/Serial number HP	30004T-1204					
			3					
274		Year Installed CRAIN/HOIST						
371		Manufacturer	COLLING					
		Model/Serial number	COFFING			+		
		Year Installed						
360		VALVE VAULT						
300		Type	CHECK VALVE	GATE VALVE				
		Manufacturer	KENNEDY	KENNEDY				
		Size	4"	4"				
		#	2	2		<u> </u>		
		Year Installed	1998	1998		<u> </u>		
355		GENERATOR	1550	2550				
333		Manufacturer	KOHLER					
		Generator KW	81					
		Generator KVA	101					
		Fuel Tank (Gals)						
355		ATS (manf/model #)	KOHLER					
		Year Installed	1998					
360		FORCE MAIN	1					
		Force Main Size	6"					
		Force Main Mat.	PVC					
		Length in Feet	3169 LF					
		Year Installed	1998					
		Discharge Point	PENN'S PRESERVE WWTP BA	AR SCREEN				
		Discharge Point Location						

354.2	BUILDING				
	Condition				
	Size	505 SF			
	Main Structure Material	STONE			
	Roof Type	ASPHALT			
	Roof Condition				
	Doors (number /material)	2/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1998			
	ELECTRICAL				
371.3	MCC	SCHNEIDER ELECTRIC			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed				
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter				
364	Chart Recorder	BAILEY FISCHER PORTER			
354.3	Hydrants				
	GROUNDS				
354.3	Fence Length	N/A			
	Fence Type	N/A			
	Year Installed	1998			
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	ODOR CONTROL				
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIPT	ION OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable	<u> </u>			<u> </u>

Dovecote PS

Facility Description (see attached Information Sheet)

Dovecote PS is located on 10 Dovecote Lane and is equipped with two Hydromatic G2HX750JD submersible grinder pumps. Wastewater is discharged through an 1,847 LF 2-inch PVC force main that ties into the existing sewage collection system at Manhole 3-88 at the intersection of School Lane and Long Lane. The pump station was installed in 1998 and dedicated to the Township at the end of 2018.

The pump wet well is concrete (6 ft x 6 ft x 18.5 ft deep) with a 36-inch x 54-inch aluminum hatchway. The control panel is manufactured by Healy-Ruff. There are two 2-inch gate valves. The pump station does not have a flow meter.

There is no building or enclosure at this site.

The pump station does not have a generator.

The pump station is surrounded by approximately 42 LF of chain link fence.

Property Condition

The mechanical and electrical equipment are in good condition.





Figure 1 – Pump Station Site



Figure 2 – Control Panel



Figure 3 – Wet Well Interior



Figure 4 – Valve Vault



PUMP STATI	ON			Scheduled Visit Date:	2/17/2021		
Station Name		Dovecote Pump Station	Phone #	Jenedulca visit Date.	2/11/2021	<u>'I</u>	
Location		10 Dovecote Ln, Malvern, PA					
Start Up Date	ρ	1998					
CODE	SUBCODE	PUMP STATION				COMMENTS	
371.3		PUMP(S)					
371.3		Condition					
		No. of Pumps	2				
		Туре	SUBMERSIBLE GRINDER				
		Pump Manufacturer	HYDROMATIC				
		Pump Model Number	G2HX750JD				
		Year Installed	1998				
		Pump GPM					
		Pump TDH Ft.					
		Outlet Size	2"				
		Motor HP	7.5				
271.2		Motor Voltage	240				
371.3		Pump Control (VFD?)	FLOAT				
370.3		WET WELL Condition					
		Size	6' x 6' x 18.5' DEEP				
		Material	CONCRETE				
		Lined	BITUMASTIC COATING			1	
		Hatch	36" x 54" ALUMINUM HATC	H			
		Vent	4" WELDED STEEL	W/ SCREEN			
		Rails	SS	TTY GOTTEET			
		Cable	SS (PRIMARY)	NYLON ROPE (BACKUP)			
		Piping	,	, , ,			
371.3		CONTROL PANEL					
		Manufacturer	HEALY-RUFF				
		Year Installed	1998				
		Model/Serial number	MICRO VPAC II				
361		INFLUENT PIPING (IF KNOWN	1)				
		Material	SDR-35				
		Diameter	8"				
371		GRINDER					
		Manufacturer					
		Model/Serial number					
		HP					
274		Year Installed	21/2				
371		CRAIN/HOIST	N/A				
		Manufacturer Model/Serial number					
		Year Installed					
360		VALVE VAULT					
300		Type	GATE VALVE			1	
		Manufacturer	GATE VALVE				
		Size	2"				
		#	2				
		Year Installed	1998				
355		GENERATOR					
		Manufacturer					
		Generator KW					
		Generator KVA					
		Fuel Tank (Gals)					
355		ATS (manf/model #)					
		Year Installed					
360		FORCE MAIN					
		Force Main Size	2"				
		Force Main Mat.	PVC SDR-21				
		Length in Feet	1847 LF				
		Year Installed	1998				
		Discharge Point	MH 3-88				
		Discharge Point Location					

354.2	BUILDING				
	Condition				
	Size	N/A			
	Main Structure Material	N/A			
	Roof Type	N/A			
	Roof Condition	N/A			
	Doors (number /material)	N/A			
	Lighting (Type)	VAPOPROOF INCANDESCEN	T FIXTURE (STANCHION	MOUNT 7'-0 HIGH)	
	Year Installed	1998			
	ELECTRICAL				
371.3	MCC	PUMPAK			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed	1998			
354.3	<u>HVAC</u>				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter				
364	Chart Recorder				
354.3	Hydrants				
	<u>GROUNDS</u>				
354.3	Fence Length	42 LF			
	Fence Type	CHAIN LINK			
	Year Installed	1998			
354.3	Paving and Walkways	CONCRETE PAD			
371.3	ODOR CONTROL				
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESCRIP	TION OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

Booster PS #1 - Jaffrey

Facility Description (see attached Information Sheet)

Booster PS #1 is located on 107 Jaffrey Road and is equipped with two Franklin Electric IDP-A231-20 submersible grinder pumps with a permitted peak flow of 30 GPM. Wastewater is discharged through a 1,281 LF 2.5-inch pressure main to Booster Pump Station #2 on Grubb Road. Booster Pump Station #1 was installed in 2001.

The pump wet well is fiberglass (3 ft dia. x 12 ft deep) with a removable 3 ft diameter fiberglass cover. The control panel is manufactured by UL. There are two 2-inch gate valves and two 2-inch check valves. The booster station does not have a flow meter.

There is no building or enclosure at this site.

The wet well is surrounded by six concrete bollards.

Property Condition

The mechanical and electrical equipment are in good condition.





Figure 1 – Booster Pump Station Site



Figure 2 – Control Panel



Figure 3 – Wet Well Interior



Figure 4 – Alarm System



PUMP STATI	ON			Scheduled Visit Date:	2/17/2021	1		
Station Name		Booster Pump Station #1	Phone #	Scheduled Visit Date.	2/17/2021	1		
Location Start Up Date		107 Jaffrey Rd, Malvern, PA						
		2001						
CODE	SUBCODE	PUMP STATION				COMMENTS		
371.3		PUMP(S)						
371.3		Condition						
		No. of Pumps	2					
		Туре	GRINDER					
		Pump Manufacturer	FRANKLIN ELECTRIC					
		Pump Model Number	IGP-A231-20					
		Year Installed	2001					
		Pump GPM	30					
		Pump TDH Ft.	60					
		Outlet Size	2"					
		Motor HP	2					
		Motor Voltage	230					
371.3		Pump Control (VFD?)	FLOAT					
370.3		WET WELL						
		Condition						
		Size	3' DI x 12' DEEP					
		Material	FIBERGLASS					
		Lined						
		Hatch						
		Vent						
		Rails						
		Cable						
		Piping						
371.3		CONTROL PANEL						
		Manufacturer	UL					
		Year Installed	2001					
264		Model/Serial number	AZ721266					
361		INFLUENT PIPING (IF KNOWN						
		Material Diameter	SDR 21 PVC 2"					
371		GRINDER	N/A					
3/1		Manufacturer	IN/A					
		Model/Serial number						
		HP						
		Year Installed						
371		CRAIN/HOIST	N/A					
071		Manufacturer	,					
		Model/Serial number						
		Year Installed						
360		VALVE VAULT						
		Туре	CHECK VALVE	GATE VALVE				
		Manufacturer						
		Size	2"	2"				
		#	2	2				
		Year Installed	2001	2001				
355		<u>GENERATOR</u>						
		Manufacturer						
		Generator KW						
		Generator KVA						
		Fuel Tank (Gals)						
355		ATS (manf/model #)						
		Year Installed						
360		FORCE MAIN						
		Force Main Size	2.5"					
		Force Main Mat.	SDR 21 PVC					
		Length in Feet	6534 LF					
		Year Installed	2001					
		Discharge Point	MH 3-52					
		Discharge Point Location	l			1		

354.2	BUILDING	N/A			
	Condition				
	Size				
	Main Structure Material				
	Roof Type				
	Roof Condition				
	Doors (number /material)				
	Lighting (Type)				
	Year Installed				
	ELECTRICAL				
371.3	MCC	BREAKERS IN CONTROL F	PANEL		
396	Alarm System (manf/ model)	LIMITED SECURITY DRODUCTS/CVD 2020			COMMENTS
	Year Installed	2001			
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter	N/A			
364	Chart Recorder				
354.3	Hydrants				
	GROUNDS	N/A			BOLLARDS AROUND WETWELL
354.3	Fence Length				
	Fence Type				
	Year Installed				
354.3	Paving and Walkways				
371.3	ODOR CONTROL	N/A			
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESC	CRIPTION OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

Booster PS #2 - Appleton

Facility Description (see attached Information Sheet)

Booster PS #2 is located on the property of 158 Grubb Road and is equipped with two Franklin Electric IDP-A231-20 submersible grinder pumps with a permitted peak flow of 30 GPM. Wastewater is discharged through a 5,253 LF pressure main, starting as 3-inch PVC at the pump station, and transitions to 4-inch PVC before it ties into the existing gravity sewage collection system at Manhole 3-52 at the intersection of Clearview Road and Rambling Lane. The booster pump station was installed in 2001.

The pump wet well is fiberglass (3 ft dia. x 12 ft deep) with a removable 3 ft diameter fiberglass cover. The control panel is manufactured by UL. There are two 2.5-inch gate valves and two 2.5-inch check valves. The booster station does not have a flow meter.

There is no building or enclosure at this site.

Property Condition

The mechanical and electrical equipment are in good condition.





Figure 1 – Booster Pump Station Site



Figure 3 – Wet Well Interior



Figure 2 – Wet Well Exterior



Figure 4 – Control Panel

PUMP STATI	ION			Scheduled Visit Date:	2/17/2021	
Station Name		Booster Pump Station #2	Phone #	Scheduled Visit Bate.	2/17/2021	1
Location Start Up Date		158 Grubb Rd, Malvern, PA	Thoric #	1		
		2001				
		2001				
CODE	SUBCODE	PUMP STATION				COMMENTS
371.3		PUMP(S)				
371.3		Condition				
		No. of Pumps	2			
		Туре	GRINDER			
		Pump Manufacturer	FRANKLIN ELECTRIC			
		Pump Model Number	IGP-A231-20			
		Year Installed	2001			
		Pump GPM	30			
		Pump TDH Ft.	60			
		Outlet Size	2"			
		Motor HP	2			
		Motor Voltage	230			
371.3		Pump Control (VFD?)	FLOAT			
370.3		WET WELL				
		Condition				
		Size	3' DI x 12' DEEP			
		Material	FIBERGLASS			
		Lined				
		Hatch				
		Vent				
		Rails				
		Cable				
		Piping				
371.3		CONTROL PANEL				
		Manufacturer	UL			
		Year Installed	2001			
264		Model/Serial number	AZ721265			
361		INFLUENT PIPING (IF KNOWN Material	SDR 21 PVC			
		Diameter	2.5"			
371		GRINDER	N/A			
3/1		Manufacturer	IV/A			
		Model/Serial number				
		HP				
		Year Installed				
371		CRAIN/HOIST	N/A			
		Manufacturer	,			
		Model/Serial number				
		Year Installed				
360		VALVE VAULT				
		Туре	CHECK VALVE	GATE VALVE		
		Manufacturer				
		Size	2.5"	2.5"		
		#	2	2		
		Year Installed	2001	2001		
355		GENERATOR				
		Manufacturer				
		Generator KW				
		Generator KVA				
		Fuel Tank (Gals)				
355		ATS (manf/model #)				
		Year Installed				
360		FORCE MAIN	2"			
		Force Main Size	3"			
		Force Main Mat.	SDR 21 PVC			
		Length in Feet	5253 LF 2001	+		
		Year Installed Discharge Point	MH 3-52	+		
		Discharge Point Location	IVITI 3-32	+		
J	l	Pischarge Fullit Lucation	l .			I.

354.2	BUILDING	N/A			
	Condition				
	Size				
	Main Structure Material				
	Roof Type				
	Roof Condition				
	Doors (number /material)				
	Lighting (Type)				
	Year Installed				
	ELECTRICAL				
371.3	MCC	BREAKERS IN CONTROL P	ANEL		
396	Alarm System (manf/ model)	UNITED SECURITY PRODU	ICTS/CVD-2020		COMMENTS
	Year Installed	2001			
354.3	HVAC				
	Condition				
	Туре				
	Manufacturer				
	Year Installed				
364	Flow Meter	N/A			
364	Chart Recorder				
354.3	Hydrants				
	<u>GROUNDS</u>	N/A			
354.3	Fence Length				
	Fence Type				
	Year Installed				
354.3	Paving and Walkways				
371.3	ODOR CONTROL	N/A			
	Manufacturer				
	Туре				
	MISCELLANEOUS				
	Other Buildings				
	Spare Parts		DESC	RIPTION OF FACILITY	
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable			·	

4.3. COLLECTION SYSTEM

Willistown Township owns the collection system in Willistown Township. The collection system consists of gravity piping, low-pressure systems, and force mains. The Township owns the portion of the laterals from the main to the curb. A map of the collection system and drainage areas can be found in Appendix A, Figure A1. Collection system related cost data can be found in Section 9 for the gravity mains, manholes and force/pressure mains under account codes 361.21, 361.23, and 360.21, respectively.



5. OWNED PROPERTY & EASEMENTS OF VALUE

The Township owns the properties upon which Pump Stations #1, #2, and #3, Booster Pump Station #1, and the Penn's Preserve WWTP are located. These Township-owned properties are included in Section 9 – "List of Assets and Costs".

Pump Station #4, Dovecote Pump Station, Booster Pump Station #2, and a portion of the Penn's Preserve WWTP are located on private properties in which sanitary sewer easements have been granted to the Township. The property on which Pump Station #5 is located has been dedicated to the existing right-of-way of West Chester Pike (Route 3), and therefore does not require an easement. The Township has also provided several sanitary sewer easement agreements for various properties throughout the Township in which the sanitary sewer collection system runs through. The prices of these known easements are included in Section 9 – "List of Assets and Costs". There are a number of additional easements for the sewer system that are not provided but are believed to be of no value.



6. REGULATORY REQUIREMENTS



3600-PM-WQ0015 Rev. 8/94

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER MANAGEMENT PROGRAM

PERMIT NO.	1597408
AMENDMENT NO.	

WATER QUALITY MANAGEMENT PERMIT

	0.0113.4/01700.0/	a.1 B /		<u></u>			
Α.	A_ PERMITTEE (Name & Address): Willistown Township						
	688 Sugartown Road						
			PA 19355 y, Municipality)				
8.			y, Municipality) Subdivision				:
			n Township				
		Thester (•				
C.	THIS:	X	Permit	Perr	nit Amend	dment	
C.	1 M13:		ecruit -	T. Ct 1	inc Amend	**************************************	
	APPROVES:	Х	The construction/or	eration of:	_	Modification(s) to the construction/operation of:	
			Sewage Treatment Fr	scilities		Industrial Waste Treatment Facilities	
		·····	Land Application Fa	cilities		Other:	
			Average Design Flor		MGD co	onsisting of:	-
			1110.484	·	<u></u>		-
					<u></u>	The state of the s	-
		7/	Sewers and Appuner	TORERE	X	Pump Station(s)	-
		X		iances		Injection Well(s)	
			Impoundment(s)	Control Blan		A STATE OF THE STA	
			_	nentation Control Plan		Outfail & Headwall(s)	
-			Stream Crossing(s)			Online & ficed will by	
			DV MUIC DEDAMO I	S SUBJECT TO THE	FOLLOWI	NG CONDITIONS:	
D.	APPROVAL G	KANTED	BI THIS PERCENT I	3 20 BUECT TO THE	, r. Chime		
i_a	All constructi	on America	ions, and procedures sh	nall be in accordance wi	th the Water (Quality Management Permit/Permit Amendment	
1. 4	Application of	laced	July 8, 1997	, its supportin	g documentat	ition, and addendums dated September 3, 1997	
				and addendums are be	reby made a p	part of this permit.	
b	. Water Qualing	y Managen	nent Permit No.		dated	and conditions, supporting	18
	documentatio	n and adde	endums are (except for	any modifications to th	e original per	rmit herein permitted) also made a part of this	
	permit amend	iment.				,	4
2.	Conditions of	nwpered	Market Control No.	10, 11, 13, 14, 16, 1	7, 18, 20, 4	21, 22 0, 1, 2000, 250	
	conditions de	ited	09/83	and conditions number			
ļ	conditions da	ited	08/91	are attached and made	part of this pe		
3.	Special condi	itions nom	bered	I	<u></u>	are attached and made part of this permit.	
						CONTRACTORISTS OF A INCASSORS	•••••
E.	THE AUTHOR	UTY GRA	anted by this pei	rmit is subject t	OTHEFOL	LOWING FURTHER QUALIFICATIONS:	
	I Caluana in m	andier has	wood the anolication of	its supporting docume	nes and ament	idments and the standard or special conditions, the	
1.	ciandani or s	narial rans	tirings chall apply.				
2.	Failure to co	mply with	the rules and regulation	is of the Department or	with the term	ns or conditions of this permit shall void the authority	
	aiuna ta tha r	armittee b	withe issuance of the or	erratit.			
3.	This permit i	s issued pu	rsuant to the Clean Str	eam law Act of June 22	., 1937, P.L. I amandad 37 ¹	1987, as amended 35 P.S. § 691.1 et seq., and/or the Da P.S. § 693.1 et seq. Issuance of this permit shall not	344
	authorized for no	mmillion of	new responsibility and	er anv Albar law.			
4.	Industrial Fac	cilities - If	the herein permitted fa	cititles or modifications	are not comp	pleted with two (2) years of the issue date below, this	
1	permit will b	ecome nul	and void and reapplic	ation shall be required.			
PE	RMIT ISSUED:			-	DEPAR	RTMENT OF ENVIRONMENTAL PROTECTION	
DA	TE no	/11/9	7			1 -1 -2	
1	MENDMENT ISS	,	J		BY:	Marie Velell	
	ATE				TITLE:	Regional Manager, Water Management	
1	**************************************					i	

Page 2 of 2

Sewerage Permit No. 1597408 Willistown Township Willistown Township, Chester County

This permit is subject to the following Special Condition(s):

I. Consistent with Department of Environmental Protection Policy, the Department did not conduct a detailed technical review of the application for this permit. The Department considers the registered professional engineer whose seal is affixed to the design documents, to be fully responsible for the adequacy of all aspects of the facility design.

Re 30 (RN)245-19



Pennsylvania Department of Environmental Protection

Lee Park, Suite 6010 555 North Lane Conshohocken, PA 19428

March 31, 1998

Southeast Regional Office

610-832-6130 Fax 610-832-6133

Mr. Rosenberry Willistown Township 688 Sugartown Road Malvern, PA 19355 RECEIVED

APR 0 3 1998

WILLISTOWN TOWNSHIP

Re:

Sewerage Permit No. 1597417

East Central Sanitary Sewer Project

Willistown Township Chester County

Dear Mr. Rosenberry:

Referenced permit is enclosed.

Please study the permit carefully and direct any questions to the Permits Section of this office.

Please take the time to complete the enclosed questionnaire and return it in the pre-addressed and stamped envelope. Your response will be taken into account as we consider ways of improving our service to the public and regulated community. Thank you for your cooperation.

Sincerely,

Steve O'Neil

Acting Regional Manager

Water Management

Enclosures:

Permit

Standard Conditions Relating to Sewerage

Standard Conditions Relating to Erosion Control

cc:

Mr. Linahan, Yerkes Associates, Inc.

Willistown Township

Chester County Health Department

Permits and Compliance

Ms. W. Warren

Re 30 (RN)9837-13c

3600-PM-WQ0015 Rev. 8/94

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER MANAGEMENT PROGRAM

PERMIT NO.	1597417		
MENDMENT NO			

WATER QUALITY MANAGEMENT PERMIT

A.]	PERMITTEE (Na							
	Willistown Township 688 Sugartown Road							8
	Malvern, PA 19355							
В.	PROJECT (Name)				
	Ea	st Cent	tral Sanitary	Sewer Project				
			n Township					
			County	*				
C.	THIS:	X	Permit	Permi	t Amend	ment		
	APPROVES:	X	The construct	tion/operation of:		Modification(s) to th	ne construction/operatio	on of:
) '		Sewage Treatr	ment Facilities		Industrial Waste Trea	atment Facilities	ti.
	i 		Land Applicat	ion Facilities		Other:		
	_		Average Desig	gn Flow of	MGD cor	nsisting of:		
								<u> </u>
	_	X	Sewers and A		X	Pump Station(s)		
			Impoundment	5.05		Injection Well(s)		
	-	X		& Sedimentation Control Plan				
	_	X	Stream Crossi	ng(s)		Outfall & Headwall(s)	
D.	APPROVAL GR	ANTED	BY THIS PER	MIT IS SUBJECT TO THE F	OLLOWI	NG CONDITIONS:		
1. a.	All construction Application dat		ions, and proced 12/19/	ures shall be in accordance with , its supporting of		Quality Management I ion, and addendums d		nt
b.				ntation and addendums are here	oy made a p dated	part of this permit.	and conditions,	supporting
	documentation permit amendm		endums are (exc	ept for any modifications to the o	original per	mit herein permitted)	also made a part of this	
2.	Conditions nun			1-7, 9, 13, 14, 16, 20-22	2	of the	Sewerage	standard
	conditions date	d	09/83	and conditions numbered		1-12	of the erosion contr	ol standard
	conditions date	d	08/91	are attached and made pa	rt of this po	ermit.		
3.	Special condition	ons num	bered	I & II		are attached and	d made part of this permi	it.
E.	THE AUTHORI	TY GRA	NTED BY TH	IS PERMIT IS SUBJECT TO	THE FOL	LOWING FURTHE	R QUALIFICATIONS	S:
1.	If there is a con	fliat hat	waan tha annlias	tion or its supporting documents	and amon	languate and the etcarde		al
1.	standard or spe	cial cond	ditions shall app	tion of its supporting documents ly.	and amend	iments and the standa	rd or special conditions,	tne
2.				ulations of the Department or w	ith the term	s or conditions of this	permit shall void the au	thority
3.			y the issuance o	f the permit. ean Stream law Act of June 22, 1	027 D.I. 1	007 ng amandad 25 E	0 C S 601 1 at ann and/	on the Dess
٥.	Safety and Enc	roachme	nts Act of Nove	mber 26, 1978, P.L. 1375, as am	ended, 32 I	P.S. § 693.1 et seq. Is	suance of this permit sha	all not
7000	relieve the perr	nittee of	any responsibili	ty under any other law.				
4.				itted facilities or modifications a capplication shall be required.	re not comp	oleted with two (2) yea	ars of the issue date belo	w, this
PEF	RMIT ISSUED:				DEPAR	TMENT OF ENVIR	CONMENTAL PROTE	CTION
DA	TE	03/	/31/98				1011	R
AM	ENDMENT ISSU		Jie - S	-	BY:	- Tue	J. Olley	
DA	TE		1		TITLE:	Regional Mana	ger, Water Manager	ment

Sewerage Permit No. 1597417 Willistown Township Willistown Township, Chester County

This permit is subject to the following Special Condition(s):

- 1. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to the Department.
- 2. Consistent with Department of Environmental Protection Policy, the Department did not conduct a detailed technical review of the application for this permit. The Department considers the registered professional engineer whose seal is affixed to the design documents, to be fully responsible for the adequacy of all aspects of the facility design.

Re 30 (RN)9837-13b

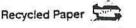
STANDARD CONDITIONS RELATING TO SEWERAGE - PART II PERMITS

For use in Water Quality Management Permits

- 1. During construction, no changes affecting any engineering design parameter shall be made from the plans, designs, and other data herein approved unless the permittee shall first receive written approval thereof from the Department. The sewerage facilities shall be constructed under expert engineering supervision and competent inspection.
- The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled such that the
 sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete
 used in connection with these sewers shall be protected from injury by water, freezing, drying or other harmful
 conditions until cured.
- 3. Manhole inverts shall be so formed as to facilitate the flow of the sewage and to prevent the stranding of sewage solids, and the whole manhole structure shall have proper structural strength and be so constructed as to prevent undue infiltration, entrance of the street wash or grit, and to provide convenient and safe means of access and maintenance.
- 4. No stormwater from pavements, area ways, roofs, foundation drains or other sources shall be admitted to the sanitary sewers herein approved.
- 5. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and on-lot sewage disposal systems on the premises of occupied structures which are accessible to public sewers and require the connection of such structures to the public sewers.
- 6. The herein approved sewers shall be maintained in good condition, kept free from deposits by flushing or other proper means of cleaning and repaired when necessary.
- 7. The permittee shall file with the Department of Environmental Resources "as-built" plans showing the correct plan of all sewers and sewerage structures as actually constructed together with any other information in connection therewith that may be required.
- 8. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to assure the proper mixing and waste assimilation an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of navigable stream, provided that the permittee has secured an easement, right-of-way, license, or lease from the Department in accordance with Section 15 of the Dam Safety and Encroachment Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 9. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property, with full rights of ingress, egress and regress.
- 10. When the herein approved sewage treatment works is completed and before it is placed in operation, the permittee shall notify the Department in writing so that an inspection of the works may be made by a representative of the Department.
- 11. The various structures and apparatus of the sewage treatment works herein approved shall be maintained in proper condition so that the facility will individually and collectively perform the functions for which they were designed.
- 12. If, in the opinion of the Department, these works are not so operated or if by reason of change in the character of wastes or increased load upon the works, or changed use or condition of the receiving body of water, or otherwise the effluent from the said works ceases to be satisfactory or the sewerage facilities shall have created a public nuisance, then upon notice by the Department, the right herein granted shall cease and become null and void unless within the time specified by the Department, the permittee shall adopt such remedial measures as will produce an effluent which, in the opinion of the Department, will be satisfactory.

DEPARTMENT OF ENVIRONMENTAL RESOURCES STANDARD CONDITIONS RELATING TO EROSION CONTROL For Use in Water Quality Management Permits

- By approval of the plans for which this permit is issued, neither the Department nor the Commonwealth of Pennsylvania assumes any responsibility for the feasibility of the plans or the operation of the measures and facilities to be constructed thereunder.
- If at any time the erosion and sedimentation activities undertaken pursuant to this permit or the discharge
 of the effluent therefrom is causing or contributing to pollution of the waters of the Commonwealth, the permittee shall forthwith adopt such remedial measures as are acceptable to the Department.
- This permit does not authorize any earth disturbance controlled by an ordinance enacted by a local municipality. Additional permits must be secured from local municipalities where earthmoving activities are covered by local ordinances.
- 4. At least seven days before earthmoving will begin, the permittee, by telephone or certified mail, shall notify the Department or its designee of the date for beginning of construction and invite the County Conservation District Representative to attend a pre-construction conference with the contractor. The permittee shall have his erosion control plan available at the site of the activity at all times.
- All earthmoving activities shall be undertaken in the manner set forth in the erosion and sedimentation control plan identified with this permit. Revisions to the plan shall be pre-approved by the Department.
- 6. The erosion control measures and facilities shall be constructed under the supervision and competent inspection of an individual trained and experienced in erosion control, and in accordance with plans, designs and other data as herein approved or amended, and with the conditions of this permit. Control facilities shall be frequently inspected and maintained to insure effective control.
- 7. When the herein approved erosion control measures and facilities are completed, the permittee shall notify the County Conservation District so that an inspection of the measures and facilities may be made.
- No storm water, sewage or industrial wastes not specifically approved herein, shall be admitted to the erosion
 and sedimentation measures and facilities for which this permit is issued, unless with the approval of the
 Department.
- 9. Sediment shall at no time be permitted to accumulate in sedimentation basins to a depth sufficient to limit storage capacity or interfere with the settling efficiency thereof. The sediment removed shall be handled and disposed of in a manner that will not create pollution problems and so that every reasonable and practical precaution is taken to prevent the said material from reaching the waters of the Commonwealth.
- 10. All slopes, channels, ditches or any disturbed area shall be stabilized as soon as possible after the final grade or final earthmoving has been completed. Where it is not possible to permanently stabilize a disturbed area immediately after the final earthmoving has been completed or where the activity ceases for more than 20 days, interim stabilization measures shall be implemented promptly.
- 11. Upon completion of the project, all areas which were disturbed by the project shall be stabilized so that accelerated erosion will be prevented. Any erosion and sedimentation control facility required or necessary to protect areas from erosion during the stabilization period shall be maintained until stabilization is completed. Upon completion of stabilization, all unnecessary or unusable control measures and facilities shall be removed, the areas shall be graded and the soils shall be stabilized.
- 12. The responsibility of carrying out the permit conditions shall rest with the owner, lessee, assignee or other responsible manager of earthmoving that affects the approved erosion controls. Such responsibility passes with each control succession.



STATE OF PENNSYLVANIA

SS

COUNTY OF

On the 31st day of March in the year one thousand nine hundred and Ninety Eight before me, the Subscriber, a Notary

Public, came the above named

and duly acknowledged the foregoing permit to be his act and deed and desired that the same might be recorded as such.

Witness my hand and notarial seal the day and year aforesaid.

NOTARY PUBLIC

NOTARIAL SEAL SHARON M. MOORE, Notary Public Whitemarsh Township, Montgomery Co., PA My Commission Expires Sept. 27, 2001



Pennsylvania Department of Environmental Protection

2 East Main Street Norristown, PA 19401

November 1, 2005

Southeast Regional Office

Phone: 484-250-5970

Fax: 484-250-5971

Mr. Hugh Murray, Manager Willistown Township 688 Sugartown Road Malvern, PA 19355

Re: Willistown-Bryn Mawr Rehab Pump Station

Sewerage 1505406 File Type: Permit Willistown Township Chester County

Dear Mr. Murray:

Your permit is enclosed.

You must comply with all Standard and Special Conditions attached to this Permit. Construction must be done in accordance with the permit application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

The Department of Environmental Protection (Department) also hereby approves the plan for decommissioning the existing Bryn Mawr Rehabilitation Hospital Waste Water Treatment Plant. Upon completion of the pump station, you must notify the Department so we can conduct a final inspection. Once the Department approves operation of the pump station, the treatment plant may be taken off-line in accordance with the approved decommissioning plan. Also notify the Department when the treatment plant is fully decommissioned so that the existing permits may be cancelled.

Enclosed is the "Sewage and Industrial Wastewater Facilities Construction Certification" form. A Pennsylvania-registered Professional Engineer must sign and complete this form prior to startup of the facilities (See Standard Conditions). You or your authorized representative must also sign the form. This certification and other post-construction documentation must be submitted to the Department.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed



with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions, please call Mr. David Talley at 484-250-5181.

Sincerely,

James Newbold, P.E

Regional Manager
Water Management

Enclosures

cc: Mr. Duerr - Applied Water Management, Inc.

Operations Section
Water Management
Permits Chief
File

Re (AR05WQM)141-17

3800-PM-WSWM0015 Rev. 6/2004 Permit

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

PERMIT NO. <u>1505406</u>		
AMENDMENT NO		
APS ID 546140		
AUTH ID 583306		

WATER QUALITY MANAGEMENT PERMIT

A.	PERMITTEE (Name and Address): Willistown Township 688 Sugartown Road Malvern, PA 19355	CLIENT ID#: 86424		IMARY FACILITY (Name): illistown – Bryn Mawr	Rehab Pump Station	
C.	LOCATION (Municipality, County): Willistown Township Chester County		SITE ID:	#: 5715		
D.	This permit approves the constru A new pump station with associa	-	-	=	p Station No. 3.	
Pun	np Stations:2_	Manure Storage:	į	Industrial Wastewater/Sewa	-	
Des	sign Capacity: <u>250 and 1,300</u> GPM	Volume MC	_	Average Flow:	MGD	
Ave	rage Annual Flow: 19,440 and 445,000 GPD		Design	Hydraulic Capacity: Organic Capacity:	MGD Ib/day	
1. 2. 3.	Amendments: All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated and its supporting documentation, and addendums dated, which are hereby made a part of this amendment. Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No dated shall remain in effect. Transfers: Water Quality Management Permit No dated and conditions, supporting documentation and addendums are also made part of this transfer.					
F.	THE AUTHORITY GRANTED BY THIS	PERMIT IS SUBJECT TO THE F	FOLLOWING FUR	RTHER QUALIFICATIONS:		
1.	If there is a conflict between the application shall apply.	cation or its supporting documen	nts and amendme	ents and the attached cond	litions, the attached conditions	
2.	Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit.					
3.	This permit is issued pursuant to the C permit shall not relieve the permittee of	Clean Streams Law Act of June 2 any responsibility under any othe	22, 1937, P.L. 19 er law.	87, <u>as amended</u> 35 P.S. §	691.1 et seq. Issuance of this	
PE	RMIT ISSUED: November 1, 200	95	BY: TITLE:	Water Managemen	t Program Manager	

Sewerage Permit No. 1505406 Willistown Township Chester County

This permit is subject to the following Special Condition(s):

I. The Department authorizes the construction of the referenced sewerage facilities. The Department recognizes that the facilities were designed to accommodate future flows for which Sewage Facilities Planning Approval has not been granted. Flows in the pump station, force main, and gravity lines must be restricted in accordance with the Department's October 20, 2004, Planning Approval letter, until such time as further sewage facilities planning is adopted by Willistown Township and approved by the Department.

Re 30 (AR05WQM)141-19



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

PERMIT CONDITIONS RELATING TO SEWERAGE

For use in Water Quality Management Permits

(Place a √ in the box that applies)

riak	e a	vin the box that applies)
X	1.	Consistent with the Department of Environmental Protection's (DEP) technical guidance document Conducting Technical Reviews of Water Quality Management Permit Wastewater Treatment Facilities (DEP ID: 362-2000-007) available on DEP's website at www.dep.state.pa.us . DEP considers the registered Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
×	2.	The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
	3.	The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
×	4.	The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
X	5.	When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
Ø	6.	If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
	7.	This permit authorizes the construction and operation of the proposed sewerage facilities until such time as facilities for conveyance and treatment at a more suitable location are installed and capable of receiving and treating the permittee's sewage. Such facilities must be in accordance with the applicable municipal official plan adopted pursuant to Section 5 of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended. When such municipal sewerage facilities become available, the permittee shall provide for the conveyance of the sewage to these sewerage facilities, abandon the use of these approved facilities and notify DEP accordingly. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
Ø	8.	This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
Ø	9.	This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
	10.	The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in NPDES Permit No. PA and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.
N	11	An Erosion and Sedimentation (E&S) Plan must be developed prior to construction of the permitted facility,

11. An Erosion and Sedimentation (E&S) Plan must be developed prior to construction of the permitted facility pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.

If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES permit for the Discharge of Stormwater Associated with Construction Activity is required.

In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local County Conservation District office prior to

Conditions Sewerage construction. For specific information regarding E&S control planning approval and NPDES permitting requirements, please contact your local County Conservation District office. 12. The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications. X 13. A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSWM0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities. 15. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used. X The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP. 17. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured. 図 18. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers. 図 19. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary. Ø 20. The sewerage facilities shall be properly operated and maintained to perform as designed. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible. 22. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, et seq. shall operate the sewage treatment plant. 23. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the \boxtimes

24. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.

to protect the integrity or operation of the permittee's sewerage system.

rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary,

- 25. All connections to the approved sanitary sewers must be in accordance with the corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 26. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.

1000-FM-OA0002 Rev. 9/2004



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

LICENSING/PERMIT QUESTIONNAIRE

We are looking for ways to improve our service to the public and the regulated community. Please take a few moments to respond to the following questions and statements about your recent experience in applying for a permit. Your comments and recommendations are important to us. A pre-addressed return envelope is enclosed for your use. If you have any questions regarding this questionnaire, please call the Office of Administration at (717) 787-7116. We thank you for providing us with this information.

1.	For what type of license or pe enter the number that preced	ermit did you apply? les the appropriate p	ermit type.	everse for license	/permit types an	iu	#	
2.	Are you the Applicant	☐ Consultant						
3.	Was the permit application p	repared by the	☐ Applicant	□c	onsultant] Both	
4.	Please indicate the county in		activity exists.			<u> </u>	Co	unty
5.	How long did it take to get yo							
6.	Do you think this was:	☐ Too Long		Reasonable	9	☐ Faster Tha	n Expected	
7.	Did you have to resubmit or If yes, why?	ninistratively Incomp	on? lete Technical Errors	☐ Yes ☐ Technically l		□ No (Explain)		
	Did you attend a pre-applicat	_		☐ Yes	_	□No		
8.	Did DEP staff visit the site or					— · · · ·		
9.	☐ Yes	Number of Visits	□ No	_	Unknown			
10.	Had you previously applied f			☐ Yes		□ No		
The f	following set of statements con describes your feelings.	icern your feelings a	bout certain aspe	ects of DEP's perr	mitting process.	Please circle	the one respons	se the
11.	The Department provides a s Strongly Agree 1	reasonable explanat Agree 2	ion of all administ C	rative requiremen Disagree 3	ts of the applica Strongly	tion. / Disagree 4		
12.	The Department provides a s Strongly Agree	reasonable explanat Agree 2	ion of all technica C	I requirements of Disagree 3	the application. Strongly	/ Disagree 4		
13.	DEP staff presented a profes Strongly Agree	ssional appearance _Agree 2	when performing E	on-site visits or mo Disagree 3	eetings. Strongly	/ Disagree 4		
14.	i was treated courteously an Strongly Agree	d professionally by E Agree 2	DEP staff.	Disagree 3	Strongly	/ Disagree 4		
15.	Do you have suggestions fo	r improvements to th	e licensing or per	mit application pro	ocess? (Attach	additional shee	its as needed.)	
			 					
			 					
					 -			
								
			 					
					· · · · · · · · · · · · · · · · · · ·			

TYPES OF DEP LICENSES / PERMITS

(PLEASE NOTE: The numbers associated with these permits are strictly intended for the purposes of evaluating this survey. They are <u>not</u> to be considered the official number for each permit and are <u>not</u> to be used when requesting information on a permit that has been submitted or for receiving application materials for other permits.)

AIR PLAN APPROVALS

- 100 Prevention of Significant Deterioration (PSD)
- 110 Major Source in Non-Attainment
- 120 New Source Performance Standard (NSPS)
- 130 Waste Incineration/Burning
- 140 General (Other)

BLASTING

- 150 Blaster's License
- 160 Explosives Storage Permit
- 170 Explosives Purchase/Sale Permit

MISCELLANEOUS

180 Earth Disturbance Permit

HAZARDOUS WASTE

- 190 Storage Facility Permit
- 200 Waste Piles Permit
- 210 Landfill Permit
- 220 Incinerator Permit
- 230 Chem/Phys/Bio Treatment Permit
- 240 Surface Impoundment Permit
- 250 Land Treatment Permit
- 260 Thermal Treatment Permit
- 270 Transporter License
- 280 Commercial Treatment/Disposal

INDUSTRIAL WASTE/WATER

- 290 NPDES (Part 1) Permit
- 300 Water Quality Management (Part 2)

INFECTIOUS & CHEMOTHERAPEUTIC WASTE

310 Transporter License

MINING

- 320 Letter of Authorization
- 330 Equipment Approval
- 340 Noncoal Mining Activity Permit
- 350 Refuse Bank Reprocessing Permit
- 360 Surface Coal Mining Permit
- 370 Underground Coal Mining Permit
- 380 Coal Prep Plant Permit
- 390 Coal Refuse Disposal Permit
- 400 Coal Surface Mining License
- 410 Noncoal Surface Mining License
- 420 Coal Extraction
- 430 Incidental Extraction

RADIATION

440 Radioactive Material License

SEWAGE

- 450 Planning Approval/Base Planning
- 460 Planning Approval/New Land Development
- 470 NPDES Part 1 for Sewage
- 480 Water Quality Management Part 2 Permit

MUNICIPAL/RESIDUAL WASTE

- 490 Residual Waste Processing and/or Disposal Permit
- 500 Municipal Waste Landfill Permit
- 510 Construction/Demolition Waste Landfill Permit
- 520 Incineration/Resource Recovery Facility Permit
- 530 Agricultural Utilization of Sewage Sludge Facility Permit
- 540 Demonstration Facility Permit
- 550 Land Reclamation of Sewage Sludge Facility Permit
- 560 Land Disposal of Sewage Sludge Facility Permit
- 570 Transfer Facility Permit
- 580 Municipal Waste Processing Facility Permit
- 590 Compost Facility Permit

OIL AND GAS WELLS

- 600 Oil and Gas Well Permit
- 610 Oil and Gas Well Registration
- 620 Oil and Gas Well Bond
- 630 Oil and Gas Well Coal Pillar Permit
- 640 Orphan Well Classification
- 650 Oil and Gas NPDES Permit Part 1/GP
- 660 Clean Streams Law Part 2 Permit

PUBLIC WATER SUPPLY

- 670 Public Water System Permit Community Water System
- 680 Public Water System Permit Bottled or Vended System
- 690 Public Water System Permit Bulk Water Haulers
- 700 Non-Community Water System Approval
- 710 Non-Community Water System Permit
- 720 Water Allocation Permit

WATERWAY ACTIVITIES

730 Water Obstruction/Encroachment Permit

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT



WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

15,0	APPLIC	ANT IDENTIFIER		
Permittee	e Willistown Township			
Address	688 Sugartown Road, Malvern, PA 19355			
Municipality	Willistown Township			
County				
	CER	RTIFICATION		
issuing the V along with as the design pla	VQM permit within 30 days of completually built drawings, photographs (if availating during construction.	returned to the Permits Section of the DEP Regional Office etion of the project and received by DEP prior to operation, able), and a discussion of any DEP-approved deviations from 19/13 Letter — PRE CONSTRUCTION		
I, DENNIS G. TICACEY , being a Registered Professional Engineer in accordance with the Pennsylvania Professional Engineer's Registration Law do hereby certify that the sewerage facilities approved under Water Quality Management Permit No. 1512405 (Pump Station No. 3 Upgrades) have been inspected and constructed in accordance with the plans and specifications approved by DEP.				
Construction Completion Date (MM/DD/YYYY):				
		Supervising Professional Engineer		
,		Name Dennis G. Tracey		
		(Please Print or Type)		
		Signature Winns II racey		
		Date 1/23/15		
		Title ProJ. MANAger		
The state of the s		Firm or Agency Buchart Flora, INC		
	Agei	Telephone 856 - 797 - 4339		
Permittee's	Authorized Representative:	Principal Operator Information (For Sewage Facilities):		
Name DAVID R. BURMAN		Name KENNETH E. HEYDT		
	(Please Print or Type)	(Please Print or Type)		
Signature	Jania R. Burn	Certification Number (if applicable) 59126		
Title Tow	INSHIP MANAGER	Class A, E SUBCLASS 1, 2, 3, 4		
	410-647-5300	Туре		

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT



WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

APPLICANT IDENTIFIER				
Permittee	tee Willistown Township			
Address	688 Sugartown Road, Malvern, PA 19355			
Municipality	Willistown Township			
County				
	CEF	RTIFICATION		
issuing the V along with as	VQM permit within 30 days of comple -built drawings, photographs (if availa	returned to the Permits Section of the DEP Regional Office etion of the project and received by DEP prior to operation, able), and a discussion of any DEP-approved deviations from 199/13 Letter — PRE CONSTRUCTION		
I, DENNIS G. TRACEY, being a Registered Professional Engineer in accordance with the Pennsylvania Professional Engineer's Registration Law do hereby certify that the sewerage facilities approved under Water Quality Management Permit No. 1512405 (Pump Station No. 3 Upgrades) have been inspected and constructed in accordance with the plans and specifications approved by DEP.				
Construction	Completion Date (MM/DD/YYYY):	10/22/2014		
1000000		Supervising Professional Engineer		
		Name Dennis G. Tracey		
		(Please Print or Type)		
		Signature Winns II racey		
		Date 1/23/15		
		Title ProJ. MANAGET		
2 1 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1		Firm or Agency Buchart Floren, INC		
	Self	Telephone 856 - 797 - 4339		
Permittee's Authorized Representative:		Principal Operator Information (For Sewage Facilities):		
Name	DAVID R. BURMAN	Name KENNETH E. HEYDT		
No. control	(Please Print or Type)	(Please Print or Type)		
Signature Wand & Burn		Certification Number (if applicable) 59126		
Title TOWNSHIP MANAGER		Class A, E SUBCLASS 1, 2, 3, 4		
	410-647-5300	Туре		



RECEIVED JUN 0 7 2012

WILLISTOWN TOWNSHIP

June 4, 2012

Mr. David R. Burman, Manager Willistown Township 688 Sugartown Road Malvern, PA 19355

Re:

Pump Station No. 3 Upgrades

Permit No. 1512405 File Type: Permit Willistown Township Chester County

Dear Mr. Burman:

Your permit is enclosed.

You must comply with all permit conditions attached to this permit. Construction must be done in accordance with the permit application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654,5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

RECEIVED

JAN 2 8 2015

WILLISTOWN TOWNSHIP

Southeast Regional Office | 2 East Main Street | Norristown, PA 19401-4915





IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

If you have any questions, please call Mr. James Roth at 484.250.5169.

Sincerely,

Jenifer Fields, P.E. Regional Manager Clean Water

Enclosures

cc: Chester County Health Department

Mr. Boggs, P.E. - ENTECH Engineering, Inc.

Operations Section Re (joh12clw)144-4 3800-PM-WSWM0015 Rev. 6/2004 Permit

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT



WATER QUALITY MANAGEMENT PERMIT

PERMIT NO. <u>1512405</u>

AMENDMENT NO. _____

APS ID <u>777690</u>

		PER	WILL	AUTH ID 922019		
A.	PERMITTEE (Name and Address): Willistown Township 688 Sugartown Road Malvern, PA 19355	CLIENT ID#: 86424				
C.	LOCATION (Municipality, County): Willistown Township Chester County		SITE ID#: 255715			
D.	This permit approves sewage pumpi increase the pump station's hydraulic			lling new pumps and pump controls to		
-	ump Station: Pump Station No. 3	Pi	imp Station:			
	esign Capacity: 2,000 GPM		Design Capacity: GPM			
	verage Annual Flow: 1.2 MGD		rerage Annual Flow:			
E. 1.	APPROVAL GRANTED BY THIS PERMIT IS New Permits: All construction, operations 03/28/12 , its supporting documentation	s, and procedures shall be in acc	ordance with the Water	Quality Management Permit application dated nade a part of this permit.		
	Amendments: All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated and its supporting documentation, and addendums dated, which are hereby made a part of this amendment.					
	Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No dated shall remain in effect.					
	Transfers: Water Quality Management Permit No dated and conditions, supporting documentation and addendums are also made part of this transfer.					
2. 3.	Permit Conditions Relating to Sewer Special Conditions numbered are attached					
F.	THE AUTHORITY GRANTED BY THIS PER	RMIT IS SUBJECT TO THE FOL	LOWING FURTHER QU	JALIFICATIONS:		
1.	If there is a conflict between the application shall apply.	n or its supporting documents a	and amendments and the	ne attached conditions, the attached conditions		
2.	by the issuance of this permit.			it shall void the authority given to the permittee		
3.	This permit is issued pursuant to the Clean permit shall not relieve the permittee of any	Streams Law Act of June 22, responsibility under any other la	1937, P.L. 1987, <u>as</u> <u>am</u> w.	ended 35 P.S. §691.1 et seq. Issuance of this		
PE	RMIT ISSUED:		BY:	Stulos		
COLOR OF THE PARTY	June 4, 2012		TITLE:	Clean Water Program Manager		

Permit No. <u>1512405</u> Pump Station No. 3 Upgrades



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

PERMIT CONDITIONS RELATING TO SEWERAGE

For use in Water Quality Management Permits

(Place a √ in the box that applies)

Ger	neral	
	1.	The Department of Environmental Protection's (DEP) considers the registered Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
	2.	The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
	3.	The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
\boxtimes	4.	The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
	5.	When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
	6.	If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
	7.	If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
\boxtimes	8.	This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
\boxtimes	9.	This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
	10.	The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in NPDES Permit No. PA and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.
Co	nstru	ction
	11.	An Erosion and Sedimentation (E&S) Plan must be developed prior to construction of the permitted facility, pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.
		If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES permit for the Discharge of Stormwater Associated with Construction Activity is required.
		In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local County Conservation District office prior to

requirements, please contact your local County Conservation District office.

construction. For specific information regarding E&S control planning approval and NPDES permitting

\bowtie	12.	The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications.
	13.	A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification.
	14.	Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
	15.	The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.
Ope	eratio	n and Maintenance
	16.	The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
	17.	The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
	18.	Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
	19.	The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
\boxtimes	20.	The sewerage facilities shall be properly operated and maintained to perform as designed.
	21.	The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
	22.	An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, et seq. shall operate the sewage treatment plant.
	23.	The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
\boxtimes	24.	There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
	25.	All connections to the approved sanitary sewers must be in accordance with the corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
	26.	Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments

Re 30 (joh12clw)144-4b



April 29, 2013

Mr. Keith Dudley
PA DEP
Southeastern Regional Office
Water Quality Management
2 East Main Street
Norristown, PA 19401-4915

Re:

Permit No. 1512405

Pumping Station #3 Upgrade Willistown Township, PA

Dear Keith:

Enclosed is a copy of the updated plans and capacity-related technical specifications for the proposed upgrade for the Willistown Township Pumping Station #3. As previously discussed the proposed capacity of the station remains the same as previously approved at 1.2 mgd (average) and 2.88 mgd (instantaneous peak), but the changes are to better meet the low flow conditions at the station and for constructability reasons. The changes are as follows:

- 1. There will be three (3) smaller pumps installed instead of the previously approved two (2) pump installation with larger pumps. Under this 3 small pump arrangement, a maximum of two (2) pumps can operate and the third pump will act as a standby or back up pump. With two (2) new pumps operating the station will have a combined capacity of 2,000 gpm, at 263 feet TDH (same capacity as previously approved). However, a single smaller pump can also operate at a lower flow rate to allow more uniform pumping at the low flow conditions (e.g.-single pump at 50% speed can pump as low as 500 gpm). Also the three (3) pumps are physically smaller than the two (2) large pumps previously proposed and will better fit into the existing station and require fewer structural changes; and will be easier to remove for maintenance. To accommodate the third pump the following are necessary.
 - a. A third VFD will be installed.
 - b. A new triplex pump controller to be operated in Duplex Mode.
 - c. Suction and discharge piping modifications to accommodate the third pump.

- 2. Other associated changes are being added to accommodate better operation and maintenance of the station. These include the following:
 - a. Modify the floor openings for pump placement and future removal.
 - b. Replacement of existing ventilation blowers.
 - c. Modify/Replace access doors to better accommodate equipment access and removal.

None of these changes affect the previously approved capacity of the station or should materially effect permitted approval. Therefore, as discussed a formal revised permit approval should not be required but we wanted to advise the PADEP of the proposed design changes.

If you have any questions or need any additional information please feel free to contact me or Dennis Tracey of this office.

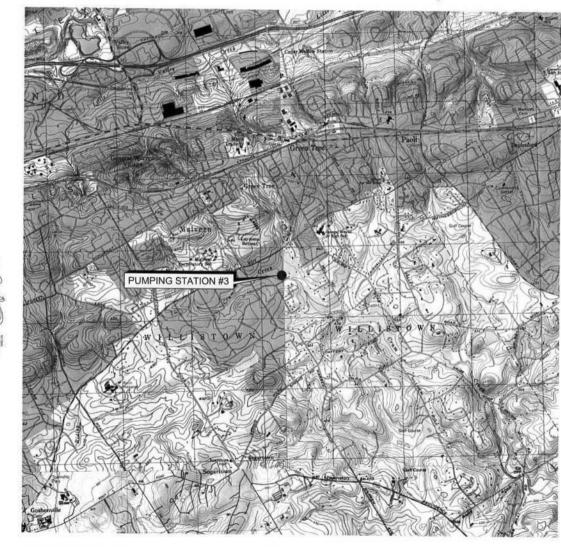
Very truly yours, BUCHART- HORN, INC.

Edward J. Di Mond, P.E. Director of Environmental

c: file 76925-00

WILLISTOWN TOWNSHIP SEWAGE PUMPING STATION UPGRADE WILLISTOWN PUMPING STATION #3

WILLISTOWN TOWNSHIP, PENNA.



INDEX OF DRAWINGS

SHEET G01: GENERAL NOTES, LEGENDS AND SYMBOLS

SHEET C01: SEWAGE PUMPING STATION LOCATION & SITE PLAN

SHEET C02: DEMO PLAN

SHEET C03: PROPOSED PLAN AND SECTION

SHEET E01-E05: ELECTRICAL SHEETS SHEET D01: DETAIL SHEET

AS CONSTRUCTED PLANS BASED ON INFORMATION SUPPLIED BY THE INSTALLING CONTRACTORS (C&T ASSOCIATES — GENERAL, AND PHILIPS BROS. — ELECTRICAL). THERE IS NO WARRANTY OF DIMENSIONAL ACCURACY. THESE DRAWINGS MAY NOT BE UTILIZED FOR NEW CONSTRUCTION OR RECONSTRUCTION WITHOUT PRIOR WRITTEN APPROVAL OF BUCHART HORN, INC. UPON TERMS AND CONDITIONS ACCEPTABLE TO OWNER AND ENGINEER.

SOURCE: USGS QUADS (VALLEY FORGE, PA.)

KEY MAP

SCALE: 1"=2000

MAY 2014
RECORD DRAWINGS

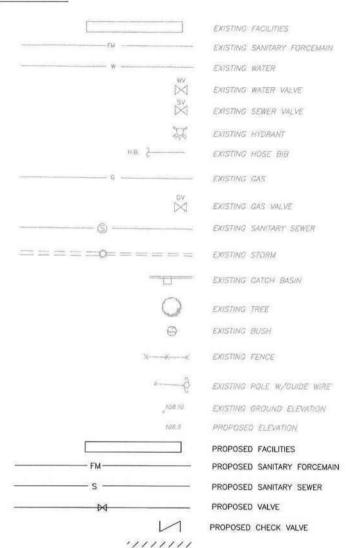
DENNIS TRACEY

PE0448885E

Buchart-Horn, Inc. 2 Eves Drive, Suite 110 Marlton, New Jersey 08053

ORD/00COVER-BWG, 10/2/2014 9/4/32 AM

LEGEND:



REFERENCE NOTES:

- 1) KEY MAP, USGS VALLEY FORGE, PA AND MALVERN, PA QUADS.
- THE EXISTING INFORMATION SHOWN FOR THIS DRAWING WAS BASED ON RECORD PLANS PREPARED BY GEORGE B. MEBUS, INC. DECEMBER 1971 AND PLANS PREPARED BY YERKES ASSOCIATES, INC., TITLED PUMPING STATION #3 UPGRADES, DATED NOVEMBER 2008.

11111111

ITEM TO BE DEMOLISHED

DATUM NOTE:

ELEVATIONS SHOWN ARE BASED ON: VERTICAL, NAV 1929

NOTES:

- 1) AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES AND MAY NOT BE ACCURATE. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL DIG TEST PITS AS REQUIRED TO VERIFY TRUE AND EXACT LOCATIONS OF LINDERGROUND LINES
- 2) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, AND SHALL COMPLY WITH ALL CURRENT MARKOUT REQUIREMENTS OF THE PENNSYLVANIA ONE CALL SYSTEM.
- 3) THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE "HIGH VOLTAGE PROXIMITY ACT".
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN APPROVED OFF-SITE LOCATION AT NO ADDITIONAL COST TO THE OWNER.
- 5) ALL CONSTRUCTION ACTIVITIES ARE TO BE CONFINED TO THE PUBLIC RIGHT-OF-WAY OR TO OWNER'S EASEMENTS AND/OR PROPERTY.
- 6) PRIOR TO CONNECTION TO, OR RELOCATION OF ANY EXISTING FACILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER. THE CONTRACTOR SHALL COORDINATE THE NECESSARY SHUTDOWN OF ANY EXISTING FACILITY WITH THE OWNER. ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE DONE AT THE CONVENIENCE OF THE OWNER.
- 7) CONTRACTOR SHALL TAKE STEPS NECESSARY TO PROTECT EXISTING CURB AND PAVING AND MINIMIZE THE LENGTH OF THE CURBING AND PAVING THAT MUST BE REPLACED.
- 8) ROADWAY, CURB AND SIDEWALK RESTORATION WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE GOVERNING AGENCY.
- 9) THE CONTRACTOR SHALL INCLUDE AND BE RESPONSIBLE FOR ARRANGING ACCESS TO THE WORK LOCATIONS AND FOR ADDITIONAL LAND REQUIRED FOR STAGING AND STORAGE DURING CONSTRUCTION.

- 10) THE CONTRACTOR SHALL ARRANGE TO HAVE THE CONDITIONS ON AND CLOSE TO THE PUMPING STATION SITE PROFESSIONALLY VIDEOED, PRIOR TO AND AFTER CONSTRUCTION IN THE EVENT THAT A DISPUTE ARISES IN REGARDS TO DAMAGE DONE TO PROPERTY DURING CONSTRUCTION.
- 11) THE CONTRACTOR SHALL PROTECT ANY PROPERTY AND EXISTING STRUCTURES IN THE WORK AREA DURING CONSTRUCTION AND SHALL REPAIR AND REPLACE ANY DAMAGE TO STRUCTURES WHICH SHALL REMAIN IN KIND, AT NO ADDITIONAL COST TO THE OWNER.
- 12) THE CONTRACTOR SHALL RESTORE ALL STRUCTURES, FENCES, PAVEMENTS, CURBS, SOFTSCAPE ETC., THAT ARE AFFECTED BY THE PROPOSED CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADEQUATE MEASURES TO PREVENT SOIL EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE LOCAL SOIL CONSERVATION DISTRICT REQUIREMENTS, AREAS PRONE TO EROSION MUST BE PROTECTED DURING CONSTRUCTION AND RESTORED TO PRE CONSTRUCTION CONDITION UPON COMPLETION
- 14) CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH THE WORK PROPOSED UNDER THIS CONTRACT.
- 15) ANY PAVEMENT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH TOWNSHIP REQUIREMENTS AS APPLICABLE.
- 16) UNLESS OTHERWISE SPECIFICALLY PERMITTED, NO WORK SHALL BE DONE BETWEEN THE HOURS OF 7:00 PM TO 6:00 AM, PREVAILING TIME. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL LOCAL AND STATE LAWS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED.
- 17) THE CONTRACTOR IS CAUTIONED THAT ALL WATER, SANITARY SEWER, AND UTILITY SERVICES HAVE NOT BEEN LOCATED. WHEN CONTRACTOR ENCOUNTERS AN OBSTRUCTION HE SHALL NOTIFY ENGINEER AND AFFECTED UTILITY OWNER.

ABBREVIATIONS:

APX	APPROXIMATELY
AVG	AVERAGE
CI	CAST IRON
Ğ.	CENTERLINE
CONC	CONCRETE
CMU	CONCRETE MASONARY UNIT
CPL	COUPLING
CU	COPPER
DISCH	DISCHARGE
DIP	DUCTILE IRON PIPE
EL.	ELEVATION
ELEV	ELEVATION
EX	EXSTING
FCA	FLANGED COUPLING ADAPTER
FL	FLANGED
FM	FORCE MAIN
GAL	GALLON
HB	HOSE BIB
HHWL	HIGH HIGH WATER LEVEL
HTR	HEATER
HWL	HIGH WATER LEVEL
ID	INSIDE DIMENSIONS
INV.	INVERT
LWL	LOW WATER LEVEL
MECH	MECHANICAL
MJ	MECHANICAL JOINT
NO.	NUMBER
NTS	NOT TO SCALE
POT	POTABLE
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE
RCP	
RED	REDUCER
R/W	RIGHT OF WAY
SQ	SQUARE
SS	STAINLESS STEEL
STL	STEEL
SW	SEAL WATER
TOP	TOP OF PIPE
TYP.	TYPICAL
WL	WATER LEVEL
ww	WALKWAY



WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01

PROJECT NO : 76925-0 00001.d CAD FILE: ENGR. /ARCH.: DGT

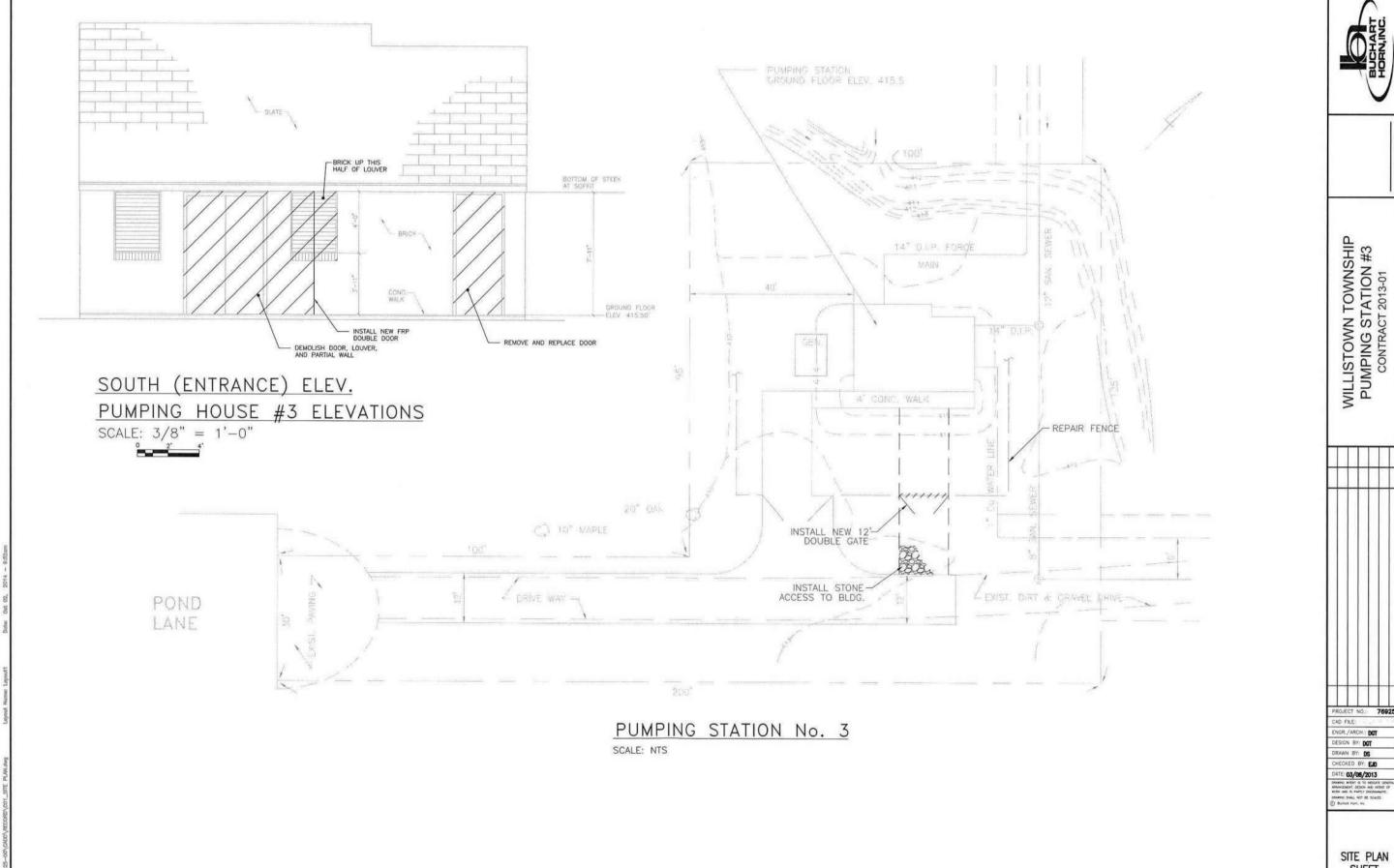
CHECKED BY: EJD DATE:03/08/2013 DAMPHO INTENT IS TO MOICHE COME MPRINCEWONT, DECICH AND INTENT OF MORE AND IS PARTLY CHARACHETIC DAMPHO SHALL NOT BE SCALED. BUTTON MORE, INC.

DESIGN BY: DGT DRAWN BY: DS

GENERAL NOTES. LEGEND, & SYMBOLS

G - 01

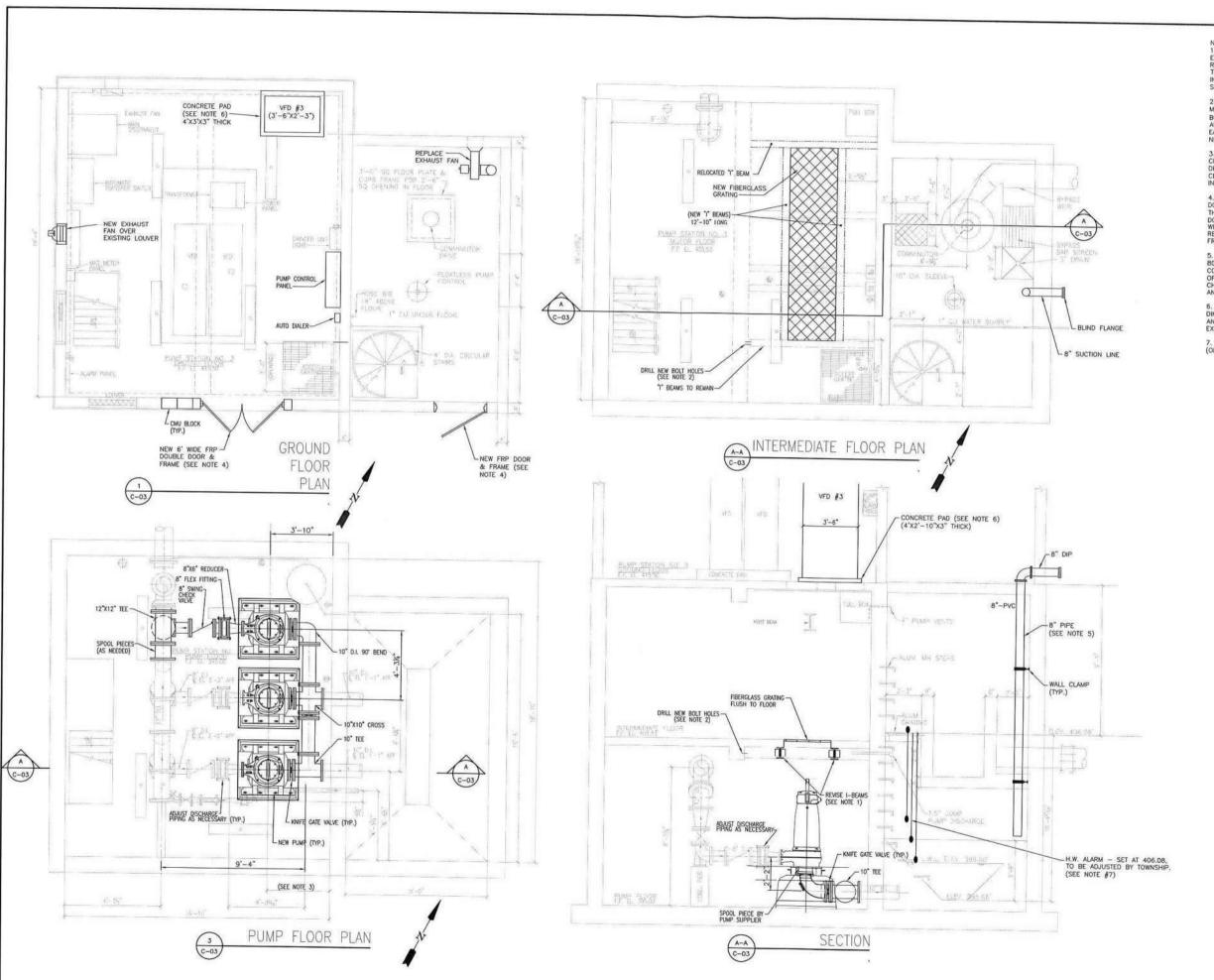
SHEET 02 OF 11



DWG STATUS (RECORD)

SITE PLAN SHEET

C-01 SHEET 03 OF 11



NOTES:

1. REMOVE ALL STEEL "I" BEAMS EXCEPT THE SOUTH MOST BEAM. RELOCATE ONE OF THE LONG BEAMS TO NEW, NORTHMOST LOCATION, AND INSTALL NEW "I" BEAMS ALONG EACH SIDE OF THE OPENING.

2. DRILL TWO (2) NEW BOLT HOLES IN MOUNTING PLATE AND INSTALL NEW BOLTS (3"X4", OR MATCH EXISTING) ABOVE REBAR CAGE FOR BOTH EAST/WEST BEAMS, AND INSTALL TWO NEW, LONG BEAMS CONNECTING.

3. CONTRACTOR TO INSURE THAT CENTERLINE OF NEW PUMPS DOES NOT DEVIATE MORE THAN 1°± FROM CENTERLINE OF HOIST BEAM ON INTERMEDIATE LEVEL.

4. INSTALL NEW 6' WIDE FRP DOUBLE DOOR AND FRAME WITH LINTEL ABOVE THAT EXTENDS 8"± EITHER SIDE OF DOOR FRAME. ALSO, REMOVE EXISTING WET WELL DOOR AND FRAME AND REPLACE WITH NEW FRP DOOR AND FRAME OF SAME SIZE.

5. NEW 8" SUCTION LINE CAN BE SCH. 80 PVC FROM MAIN FLOOR DOWN. CONNECT W/ MEGALUGS AND SUPPORT OFF THE EAST, WET WELL WALL CHANGE TO DIP FOR VERTICAL SECTION AND BLIND FLANGE OUTSIDE.

6. CONTRACTOR TO VERIFY PAD OMENSIONS TO ACCOMMODATE VFD #3; AND LOCATE TO ALLOW USE OF EXISTING FLOOR PENETRATIONS.

INSTALL THREE FLOAT SWITCHES (ON-OFF-ALARM).

WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01

PROJECT NO.: 76925-00 CAD FILE

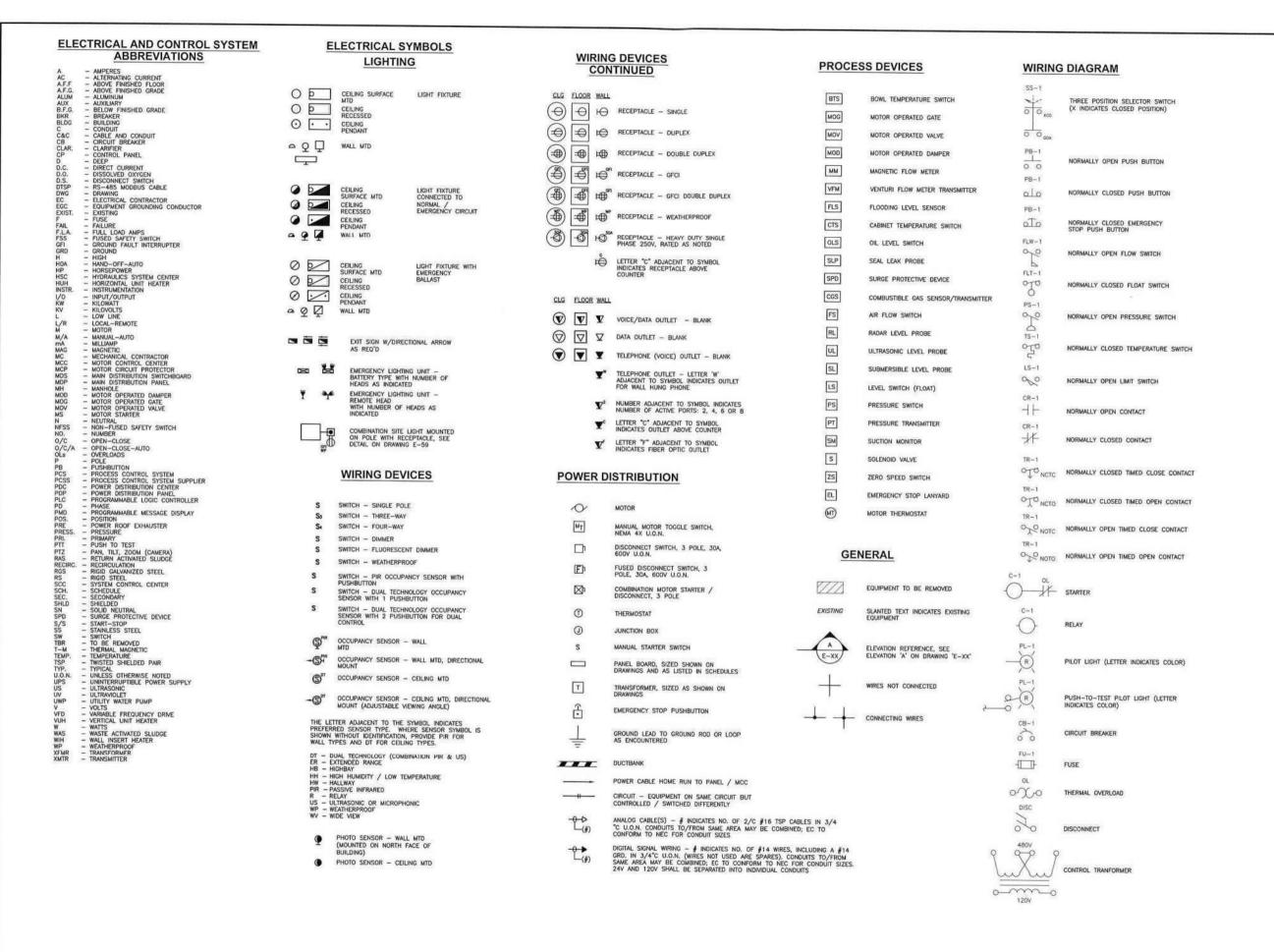
ENGR./ARCH.: DGT DESIGN BY: DCT DRAWN BY: DS

HECKED BY: E.O ATE: 03/08/2013

PUMPING STATION

PROPOSED PLANS AND SECTIONS

C - 03



WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01 WILLI

PROJECT NO. 76925-0 CAD FILE E-1.d ENGR. /ARCH CJI DESIGN BY: CJN

ELECTRICAL

3/20/201

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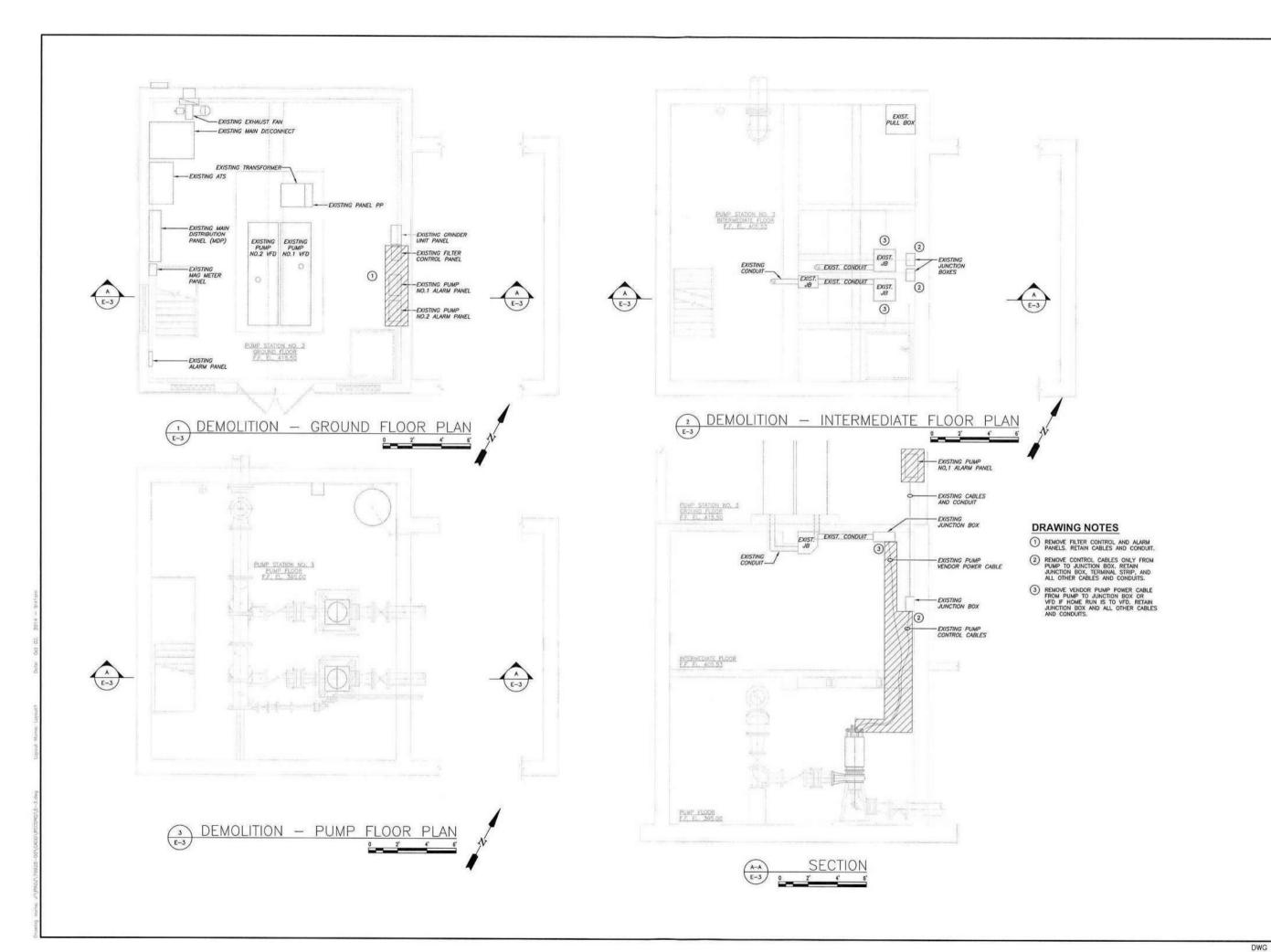
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APPRICEMENT, DESIGN AND INTOX WORK AND IS PARTLY SINCEAUGH DRAWING SHALL NOT BE SCALES INCOME HIM. HE

ABBREVIATION AND SYMBOL SHEET

E-1

SHEET 06 OF 11



WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01

DATE: 3/20/2013

DATE: 3/20/2013

MANUSCRIM, SCION NO. NEXT OF WINE AND S FAIRTY SHORMWITE.

STRANG SHALL FOR SE SCALED

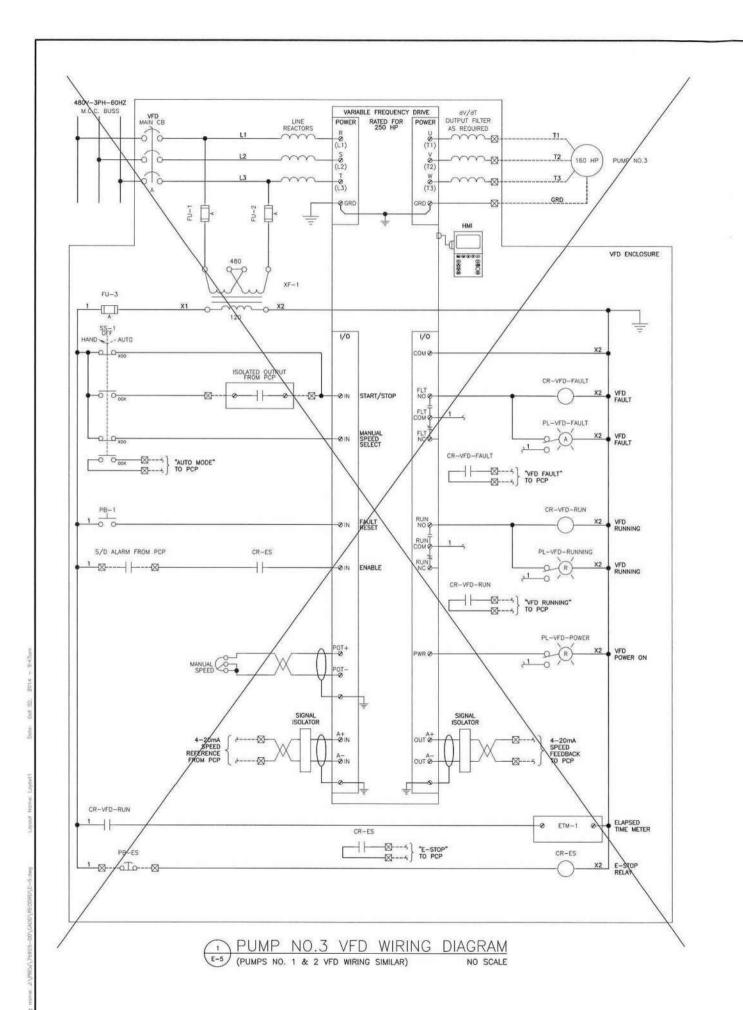
Senser Hart. Ive.

ELECTRICAL

PUMPING STATION DEMOLITION PLANS

E-3 SHEET 08 OF 11

DWG STATUS (RECORD)



BUCHART HORN,INC.

WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01

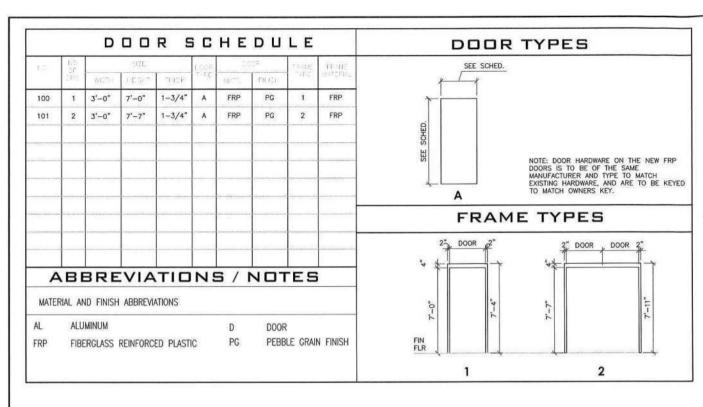
PROJECT NO.: 76925—OC
CAD FILE: E-5.4w;
ENDR./ARCH; CJM
DESIGN BY; CJM

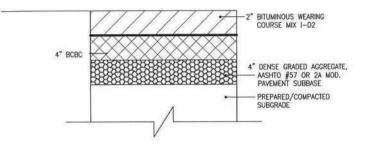
ELECTRICAL

PUMP NO.3 VFD WIRING DIAGRAM

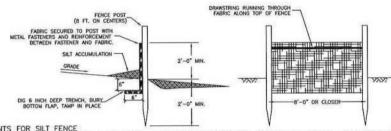
E-5

DWG STATUS (RECORD)





DRIVEWAY PAVEMENT REPAIR DETAIL



REQUIREMENTS FOR SILT FENCE

1. FENCE POSTS SHALL BE SPACED 8 FEET CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO GROUND AND EXTEND

AT LEAST 2 FEET ABAOVE GROUND, POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF

2. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY

SEDIMENT LOADING IS EXPECTED.

3. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND.

THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR

HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP

PORTION OF THE FENCE FOR ADDED STRENGTH.

*PERMANENT SEEDING NOTES:

RESTORATION OF GRASSED AND CULTIVATED AREAS:

RESTORATION OF GRASSED AND CULTIVATED AREAS:
BEFORE REPLACING TOPSOIL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF THREE (3) INCHES, ALL LUMPS, STONES, AND
FOREIGN MATERIALS REMOVED, AND THE SURFACE RAKED TO A UNIFORM GRADE. TOPSOIL SHALL THEN BE SPREAD, RAKED, AND
ROLLED TO FORM AN EVEN SURFACE WITH EXISTING GRADE. IF SUFFICIENT TOPSOIL IS NOT OBTAINED FROM STRIPPING THE ORIGINAL
AREAS DISTURBED, THE CONTRACTOR SHALL FURNISH ADDITIONAL MATERIAL AT NO ADDITIONAL COST.

THE GRASSED AREAS SHALL THEN BE LIMED, FERTILIZED AND SEEDED. LIME SHALL BE GROUND AGRICULTURAL LIMESTONE, 50% CALCIUM CARBONATE EQUIVALENT AND SHALL BE SPREAD AT THE RATE OF 90 LBS PER 1000 SQUARE FEET. FERTILIZER SHALL BE APPROVED 10-20-10 COMMERCIAL FERTILIZER, SPREAD AT THE RATE OF 1.8 PER SQUARE FEET. TEMPORARY SEED APPLIED AT THE RATE OF 0.5 LBS PER 1000 SQUARE FEET AND THE FINISHED SURFACE LIGHTLY RAKED AND ROLLED SMOOTH.

THE CONTRACTOR SHALL PROTECT ALL SEEDED SURFACES BY MULCHING WITH SMALL GRAIN STRAW, OR HAY WITH A LIQUID MULCH BINDER APPLIED AT A RATE OF 70-90 LBS PER 1000 SQUARE FEET AND SHALL TEND AND WATER ALL SEEDED AREAS UNTIL A SATISFACTORY GROWTH HAS BEEN ESTABLISHED. AREAS WHICH FAIL TO SHOW A SATISFACTORY GROWTH SHALL BE RESEEDED, FERTILIZED AND MULCHED UNTIL FULLY SATISFACTORY GROWTH IS ACHIEVED.

*SEE SPECIFICATIONS FOR PERMANENT SEEDING REQUIREMENTS

PERMANENT SEEDING SPECIFICATIONS:

SEEDING MIXTURE SHALL CONSIST OF THE FOLLOWING

RATE IN LBS PER 1000 S.F. PERENNIAL RYEGRASS KENTUCKY BLUEGRASS (BLUE)

SILT FENCE DETAIL

NOT TO SCALE

WILLISTOWN TOWNSHIP PUMPING STATION #3 CONTRACT 2013-01

							DAI
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							REVISION
	T						ON
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HECKED BY: EJD ATE:03/08/2013

PUMPING

STATION

MISC. **DETAILS**

D - 01EET 11 OF 11



RECEIVED

JUL 2 2 2013 WILLISTOWN

TOWNSHIP

July 10, 2013

CERTIFIED MAIL NO. 7007 3020 0002 8265 1805

Mr. David Burman Willistown Township 40 Lloyd Avenue Suite 204/206 Malvern, PA 19355

Re: WOM Permit - Sewage

Willistown Township Sewers to VFSA WWTP

Devon Road Project Permit No. WQG02151305 AUTH ID No. 979036 Willistown Township Chester County

Dear Mr. Burman:

Your Water Quality Management (WQM) permit is enclosed. You must comply with all Standard and Special Conditions attached to this Permit. Construction must be done in accordance with the Permit Application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

Please note that you are responsible for securing all other required permits, approvals, and/or registrations associated with the project, if applicable, under Chapters 102 (Erosion and Sedimentation Control), 105 (Stream Obstructions and Encroachments), and 106 (Floodplains) of the Department of Environmental Protection's (DEP) regulations. Construction may not proceed until all other required permits have been obtained.

Also enclosed is the "Water Quality Management Post Construction Certification" form. A Pennsylvania-registered Professional Engineer must sign and complete this form prior to startup of the facilities. You or your authorized representative must also sign the form. This certification and other post-construction documentation must be submitted to DEP within 30 days of completion of the project and must be received by DEP prior to commencing operation of the facilities.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

During construction or upon completing construction, please contact Mr. Andrew Haneiko by e-mail at ahaneiko@pa.gov or by telephone at 484.250.5183 so that an inspection of the facilities may be conducted, at DEP's discretion.

Sincerely,

Jenifer Pields, P.E. Regional Manager Clean Water

Enclosures

cc: Permits Chief

Central Office - Operations Section
Mr. Salameda - Advanced GeoServices

Re. 30 (eh13clw)171-10



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

WQG-02 WATER QUALITY MANAGEMENT GENERAL PERMIT FOR SEWER EXTENSIONS AND PUMP STATIONS PERMIT NUMBER WQG02151305

A.	PE	RMITTEE (Name and Address):	B. PROJECT/FACILITY (Name):								
	Wi	llistown Township Chester County	Willistown Twp Sewers to VFSA WWTP –								
	40	Lloyd Avenue	Devon Road Project								
	Su	ite 204/206	C. LOCATION (County, Municipality):								
	Ma	alvern, PA 19355	Willistown Township, Chester County								
	CL	IENT ID#: 86424									
D.	Th	is General Permit approves the construction and operation	n of:								
	\boxtimes	SEWER EXTENSION									
	☐ PUMP STATION										
E.	AP	PROVAL GRANTED BY THIS GENERAL PERMIT IS SUBJ	ECT TO THE FOLLOWING:								
	1. All construction, operations and procedures shall be in accordance with the <i>Domestic Wastewater Facilities Manual</i> .										
	Transfers: In the event the permittee plans to transfer ownership of the facility to another entity, the permittee and the transferee shall submit an application for such transfer to DEP. If the transfer is approved by DEP, the transferee is subject to the terms and conditions of this General Permit.										
	2.	The attached conditions apply to this General Permit and are	hereby made part of same.								
F.		E AUTHORITY GRANTED BY THIS PERMIT IS JALIFICATIONS:	SUBJECT TO THE FOLLOWING FURTHER								
	1.	If there is a conflict between the NOI or its supporting docu the attached conditions shall apply.	ments and amendments and the attached conditions,								
	2.	Failure to comply with the rules and regulations of DEP or w void the authority given to the permittee by the issuance of the									
	3.	This General Permit is issued pursuant to the Clean Stream 35 P.S. §691.1 <i>et seq.</i> Issuance of this General Permit sha any other law.									
PΈ	RM	IT ISSUED:	BY:								
		July 10, 2013	TITLE: Clean Water Program Manager								





COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

PERMIT CONDITIONS

General

- Consistent with DEP's technical guidance document Conducting Technical Reviews of Water Quality Management
 Permit Wastewater Treatment Facilities, DEP ID: 362-2000-007, available on DEP's Web site, DEP considers the
 registered professional engineer whose seal is affixed to the design documents to be fully responsible for the
 adequacy of all aspects of the facility's design.
- The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
- 3. If, at any time, the sewer extension and/or pump station covered by this General Permit creates a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 4. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the facilities.
- 5. This General Permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to, or over any lands which belong to the Commonwealth.
- 6. No discharge is authorized from these facilities unless approved by an NPDES Permit.

Construction

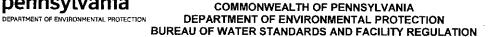
- 7. An Erosion and Sedimentation (E&S) Control Plan must be developed prior to construction of the permitted facility, pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.
 - If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES Permit is required.
 - In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local county conservation district office prior to construction. For specific information regarding E&S control planning approval and NPDES permitting requirements please contact your local county conservation district office.
- 8. Prior to beginning any construction or excavation, the locations of all utility lines must be identified through notification to the PA One Call system (www.paonecall.org). The notification shall not be less than three nor more than 10 working days in advance of beginning the construction or excavation.
- 9. The local waterways conservation officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if there is any use of explosives in any waterways and the permittee shall notify the local waterways conservation officer when explosives are to be used.
- 10. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The whole manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
- 11. The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications.

12. A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification. Construction must be completed within two years of permit issue date.

Operation and Maintenance

- 13. The permittee shall maintain sewer extension and/or pump station operation and maintenance (O&M) manuals at the facility and ensure proper O&M of the permitted facility. The permittee shall file the O&M manuals with DEP upon request.
- 14. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sewer extension or pump station.
- 15. The sewer extension shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimal settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 16. The approved sewer extensions and/or pump stations shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 17. The sewer extension and/or pump station shall be properly operated and maintained so that the facility will perform as designed.
- 18. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 19. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of the sewer extension and/or pump station.
- 20. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code, Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR Part 257 and the Federal Clean Water Act and its amendments.





WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

-	PERMI	TTEE IDENTIFIER					
Permittee	Willistown Township						
Municipality	Willistown Township						
County	Chester						
WQM Permit No.	WQG02151305						
Facility Type	Sewage						
All of the above in	nformation should be taken o	lirectly from the Water Quality Management Permit.					
	CE	RTIFICATION					
This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.							
and belief, based u	upon personal observation and ent Permit has been const	Pennsylvania, do hereby certify to the best of my knowledge interviews, that the above facility approved under the Water ructed in accordance with the plans, specifications and					
Construction Comp	oletion Date (MM/DD/YYYY): _						
		Professional Engineer					
		Name					
T .	'ngineer's	(Please Print or Type)					
12	Seal	Signature					
	0002	Date					
		License Expiration Date					
		Firm or Agency					
		Telephone					
		Permittee or Authorized Representative					
	·	Name					
		(Please Print or Type)					
		Signature					
		Title					
		Telephone					

3850-PM-BCW0015d 3/2016 Permit



Permit Effective: March 1,2020

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

WATER QUALITY MANAGEMENT PERMIT

PERMIT NO. <u>1596405</u>

 $\textbf{AMENDMENT NO.} \ \underline{\textbf{Renewal}}$

APS ID. 999033

AUTH. ID. 1283238

A.	PERMITTEE (Name and Address):	CLIENT ID#: 86424	E	B. PROJECT/FACILITY (N	•	
	Willistown Township			Penns Preserve WWTP System	/ Willistown	Township Sewer
	688 Sugartown Road Malvern, PA 19355-3302			.,		
C.	LOCATION (Municipality, County):		S	SITE ID#: 255715		
	Willistown Township, Chester Cou	inty				
D.		tion of sewage facilities consisting				
lago	oon, a storage lagoon, a spray irrig	gation pump station, chlorine di	sinfection	and two spray irrigation fi	elds for treat	ed effluent disposal
Pun	np Stations:	Manure Storage:	s	Sewage Treatment Facility:		
	ign Capacity: GPM	Volume: MG		Annual Average Flow:	.0450	MGD
	· · · · · · · · · · · · · · · · · · ·	Freeboard: inches		Design Hydraulic Capacity:	.0450	MGD
				Design Organic Capacity:	83.5	lb/day
E.	APPROVAL GRANTED BY THIS PE	RMIT IS SUBJECT TO THE FOLL		3 - 3 - 1 ,		· ,
1.	New Permits: All construction, ope			ce with the Water Quality M	anagement Pe	ermit application dated
		and addendums dated, whi				
	Renewal: All construction, operation dated <u>07/12/2019</u> and its supporting					
	Except for any herein approved mo Management Permit No. <u>15961405</u> d				ums approved	I under Water Quality
	Transfers: Water Quality Managem part of this transfer.	ent Permit No dated	_ and cond	tions, supporting documenta	ation and adde	ndums are also made
2.	Permit Conditions Relating to Sewera	age are attached and made part of	this permit.			
3.	Special Conditions <u>I-XIII</u> are attached	ed and made part of this permit.				
F.	THE AUTHORITY GRANTED BY TH	IIS PERMIT IS SUBJECT TO THE	FOLLOWIN	NG FURTHER QUALIFICAT	ONS:	
1.	If there is a conflict between the appl shall apply.					
2.	Failure to comply with the rules and r by the issuance of this permit.	regulations of DEP or with the term	s or condition	ons of this permit shall void t	he authority gi	ven to the permittee
3.	This permit is issued pursuant to the shall not relieve the permittee of any			1987, as amended 35 P.S. §	691.1 <i>et seq</i> .	Issuance of this permit
4.	This permit shall expire on <u>02/28/20</u> expiration date.	25. The permittee shall submit a	n applicatio	n to renew the permit no lat	er than 180 da	ays prior to the permit
	DEDMIT ICCUED.		DV.			
	PERMIT ISSUED: S/ 2/28/2020		BY:	Thomas L. Magge		
	G: 2:20:2020		TITLE:	Clean Water Program M	anager	

Southeast Regional Office

Permit No. <u>1596405</u>



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

PERMIT CONDITIONS RELATING TO SEWERAGE

For use in Water Quality Management Permits

(Check boxes that apply)

Gen	eral	
	1.	The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
	2.	The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
	3.	The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
	4.	The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
	5.	When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
	6.	The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 5 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the fifth anniversary of the permit date.
	7.	If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
	8.	If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
	9.	This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
	10.	This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
	11.	The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in the NPDES Permit and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.
Con	stru	ction
	12.	This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the

applicability of additional permits.

Permit No. <u>1596405</u>

- 13. The facilities shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved reports, plans and specifications. 14. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification. 15. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities. 16. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used. **Operation and Maintenance** 17. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP. 18. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured. 19. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers. 20. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary. 21. The sewerage facilities shall be properly operated and maintained to perform as designed. 22. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible. 23. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, et seq. shall operate the sewage treatment plant. 24. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system. 25. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water
- 26. All connections to the approved sanitary sewers must be in accordance with the official Act 537 Plan and, if applicable, a corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.

pipe shall pass through or come in contact with any part of a sewer manhole.

27. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

	POST CONSTRU	CTION CERTIFICATION					
	PERMIT	TEE IDENTIFIER					
Permittee	Willistown Township Chester C	County					
Municipality	Willistown Township						
County	Chester						
WQM Permit No.	<u>1596405</u>						
Facility Type	Sewage						
All of the above i	nformation should be taken di	rectly from the Water Quality Management Permit.					
	CERTIFICATION						
WQM permit withir	n 30 days of completion of the pro photographs (if available) and a	to the permits section of the DEP's regional office issuing the bject and received by DEP prior to operation, and if requested, discussion of any DEP-approved deviations from the design					
belief, based upon	personal observation and intervinit has been constructed in ac	insylvania, do hereby certify to the best of my knowledge and iews, that the above facility approved under the Water Quality coordance with the plans, specifications and modifications					
Construction Com	pletion Date (MM/DD/YYYY): _						
		Professional Engineer					
		Name					
		(Please Print or Type)					
		Signature					
		Date					
		License Expiration Date					

Engineer'

s Seal Permittee or Authorized Representative

Name (Please Print or Type)

Signature

Firm or Agency

Telephone

Title

Telephone

3800-FM-BCW0462 12/2016



PRIMARY FACILITY NAME/ADDRESS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

							•	•	
NAME	Penns Preserve STP				_				
CLIENT	Willistown Township Chester County		1596405			001			
ADDRESS	PERMIT NUMBER]	OUTFALL NUMBER			DI	
	Malvern, PA 19355-3302								D
LOCATION	Willistown Township			MONITO	RING F	PERIOD			Р
LOCATION	Chester County	YEAR	МО	DAY		YEAR	МО	DAY	P
WATERSHED	3-G				ТО				

Reporting Frequency: Monthly

DMR Effective From: March 1, 2020

DMR Effective To: February 28, 2025

Permit Expires: February 28, 2025

Permit Application Due: September 1, 2024

__ Check Here if No Discharge

NOTE: Read Instructions before completing this form

		QUAN	TITY OR LOADIN	IG	QUALITY OR CONCENTRATION					FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT										
Flow Influent	PERMIT REQUIREMENT	0.045 Avg Mo	Report Daily Max	MGD	XXX	XXX	XXX	xxx		Continuous	Metered
	SAMPLE MEASUREMENT										
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Total Mo	MGD	XXX	XXX	XXX	XXX		Continuous	Metered
	SAMPLE MEASUREMENT										
pH	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/month	Grab
Carbonaceous	SAMPLE MEASUREMENT										
Biochemical Oxygen Demand (CBOD5)	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	25 Avg Mo	50 IMAX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT										
Total Suspended Solids	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	30 Avg Mo	60 IMAX	mg/L		1/month	Grab
	SAMPLE MEASUREMENT										
Fecal Coliform	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200 Geo Mean	XXX	CFU/100 ml		1/month	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).		TEI	EPHONE	DATE		
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
COMMENTS (Report all violations on the "Non-Col	mpliance Reporting Form")						

3800-FM-BCW0462 12/2016



PRIMARY FACILITY NAME/ADDRESS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

NAME	Penns Preserve STP									
CLIENT	Willistown Township Chester County		159640	5		001			Reporting Frequency:	Monthly
ADDRESS	688 Sugartown Road	PERM	/IT NUI	MBER		OUTF	ALL NU	MBER	DMR Effective From:	March 1, 2020
	Malvern, PA 19355-3302								DMR Effective To:	February 28, 2025
LOCATION	Willistown Township			MONITO	RING P	PERIOD			Permit Expires:	February 28, 2025
	Chester County	YEAR	МО	DAY		YEAR	МО	DAY	Permit Application Due:	September 1, 2024
WATERSHED	3-G				то				Check Here if No Disc	harge
		·			-				NOTE: Read Instructions be	efore completing this form

PARAMETER		QUAN	TITY OR LOADIN	IG	QI	JALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE VALUE UNITS EX OF ANALYSIS TY	TYPE					
	SAMPLE MEASUREMENT										
Total Nitrogen	PERMIT REQUIREMENT	XXX	XXX	xxx	XXX	Report Avg Mo	XXX	mg/L		1/month	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	LEPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")							

3800-FM-BCW0462 12/2016



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	EPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see www.dep.pa.gov/edmr).

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly semi-annually and annually.
- Your reports must be <u>received</u> by DEP on the 28th day of the month following the end of the reporting period, unless otherwise specified in Part C of your permit.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-BCW0462 and begin using EPA's DMRs.
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744.
 DO NOT make changes to DMRs issued to you.
- You may use computer-generated replicas of Form No. 3800-FM-BCW0462 or of EPA's DMR if you receive
 prior approval from DEP and EPA. DEP reserves the right to instruct you to discontinue the
 submission of computer-generated DMRs if the permit requirements you entered on the form are
 inaccurate.

Instructions

- 1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
- 2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
- 3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
- 4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.
- 5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that <u>all</u> violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-BCW0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was <u>no discharge at all from an outfall</u> during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR**:

- A Use if you are exempted from monitoring the parameter because of a General Permit condition.
- **E** Use if <u>all samples or results</u> are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.
- **GG** Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).
- FF Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the <u>maximum</u> weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

Geometric Mean – Report the average of a set of *n* sample results given by the *n*th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

Non-Detect Data

Conventional and Toxic Parameters

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use the reporting limit for non-detect data. In other words, ignore the less than (<) symbol for statistical calculations and include the < symbol with the statistical result if there is at least one non-detect result in the data set. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. The average statistical result is < 1.3.

Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of the reporting limit, if the parameter is identified in 25 Pa. Code Chapter 16, Appendix A, Tables 2A and 2B. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

Bacteria Parameters

Report all "non-detect" (e.g., < 2) and "too numerous to count" (TNTC) (e.g., > 2,000) results on DMR supplemental forms as reported by the laboratory. Do not report "TNTC" on supplemental forms, but instead report a value qualified with the">" symbol. Where a data set includes one or more "non-detect" and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both ">" and "<" qualifiers, the ">" qualifier takes precedence for reporting. For all "non-detect" values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory.

Example 1 – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as < $(2 \cdot 10 \cdot 20 \cdot 30)^{0.25} = < 10$. Specify the maximum volume filtered for the < 2 result in the DMR Comments.

Example 2 – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as > $(2 \cdot 1,000 \cdot 2,000^{0.333}) = 158$.

Rounding and Precision

Statistical values reported on the DMR should be rounded to the same number of decimal places as the limit for the parameter as set forth in the permit. If the permit does not contain a limit but requests monitoring only, statistical values for concentration results should be rounded to the maximum number of decimal places in the data set as reported by the laboratory or the instrument used for analysis. If mass loads must be reported and there is no limit, round statistical values to the nearest whole number, unless the calculated number is less than one, in which case the value should be rounded to one significant figure (e.g., 0.1, 0.05, etc.). If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up, otherwise round down.

The documents "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047) and "Management of Non-Detect Results for Discharge Monitoring Reports" (3800-FS-DEP4262) contain more information and are incorporated by reference. These documents are available on DEP's website.

3800-FM-BPNPSM0439 Rev. 3/2014

pennsylvania

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

Day gallons Ibs Ib	lbs gallons lbs
Day gallons Ibs	lbs gallons lbs
1 1 1 1 1 1 1 1 1 1	lbs gallons lbs
2	
3	
4	
5 6 7 7 8 9 10 11 12 13 13 14 15 16 17 18	
6	
7 8 9	
8 9 10 9 11 9 12 9 13 14 15 15 16 17 18 18	
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29	- - -
	-
31	
30 31 Average Maximum Average Maximum	rmation submitted is, t



SUPPLEMENTAL REPORT LAND APPLICATION SYSTEMS

Facility Name:	Willistown Township	Sewer System		Mont	h:			Year:	.:
Municipality:	Willistown Township		County: Chester	Perm	it No.: <u>1596405</u>			Outfall No	.:
Watershed:	<u>3-G</u>			This	permit will expire of	on <u>FEBRUARY 2</u>	.8, 202 <u>5</u>		
	Zone:	Zone:	Zone:	Zone:	Zone:			Average	
	Acres:	Acres:	Acres:	Acres:	Acres:	Brook	ipitation	Temp	Ground Conditions
Day	Gallons	Gallons	Gallons	Gallons	Gallons	Inches	Туре	°F	(Wet, Dry, Frozen
1	Gallotis	Gallotis	Gallotis	Gallolis	Gallolis	liiches	туре	-	(Wet, Dry, Flozen
2									
3									
4									
5									
6									
7									
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Totals:									
information subn best of my know	nitted. Based on my inqu ledge and belief, true, ac	ument was prepared unde uiry of the person or perso curate and complete. I an 304 (relating to unsworn fa	ns who manage the syste n aware that there are sign	m or those persons direct	ly responsible for ga	thering the informa	ation, the inforn	nation submit	ted is, to the
	Prepared By:			Signature:					
	Title:			Date:					



SUPPLEMENTAL REPORT GROUNDWATER MONITORING DATA REPORT

Facility Name:	: Willistown To	wnship Sev	wer System			Month:		Year	:
Municipality:	Willistown To	ownship	County: C	hester	\A/ II \	Permit No.:	1596405		
Watershed:	<u>3-G</u>			Vionitori	ng Well No.:				
					FIELD ANAL	<u>YSIS</u>			
Top of Casi	ing Elevation	(ft)	Well D				Temp	perature (°C)	
	n of Water (ft)		Total V	Vell De	pth (ft)		pH (S	SU)	
Volume of \	Water in Well	(gal)	Total \	ol Puro	ged (gal)		Cond	luctivity (μmhos/cm)	
					LAB ANALY	<u>SIS</u>			
Samp	le Date		Parameter		Res	sult	Unito	Lab Reporting Limit	Heite
				Q			Units		Units
				1					
				-					
				1					
				-					
				1					
information su best of my kno	bmitted. Based owledge and beli tions. See 18 Pa	on my inquiry ef, true, accu	of the person or persons who ma	nage the at there a	system or those per are significant penalti Signa	rsons directly respect for submitting	ponsible for gath	sure that qualified personnel gather a ering the information, the information n, including the possibility of fine and i	submitted is, to the
	Title:				Date:				<u> </u>



NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

your s	ubmission o	of the DMR, it should be	submitted sepa	arately to			rting deadline se	t forth		nstructions for	more informat	on.
	-	Willistown Township Willistown Township			Chastar		Month: Permit		1596405	Year:		_
_	ipality:	•		County.	Chester		Pellill	INO	1596405			
	Violation	ns of Permit Effluent	Limitations*									
	Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units		Cause of Violation	on	Corrective A	Action Taken
	Sanitary	Sewer Overflows an	d Other Unaut	horized	Discharges*	•						
	Event Da	Substance ate Discharged	Locatio	n	Volume (gals)	Duration (hrs)	Receiving Waters	Im	npact on Waters	Cause of	Discharge	Date DEP Notified
	Other Pe	rmit Violations*										
		Sample collection less	frequent than r	equired	Expl	ain						
		Sample type not in cor	•	ermit	Expl	ain						
		√iolation of permit sch Other	edule		Expl Expl	ain ain						
		Other			Expl	ain						
* If th	o snace	provided is not su	ufficient to re	ocord s								
I certify informa my kno	under pena ition submitte wledge and	alty of law that this docured. Based on my inquiry of belief, true, accurate and Pa. C.S. § 4904 (relating to	ment was prepare the person or per complete. I am	d under i sons who aware tha	ny direction or manage the sys	supervision in a stem or those pe	accordance with a ersons directly resp	system	n designed to assure e for gathering the info	rmation, the info	rmation submitte	d is, to the best of
		Prepared By:					Signature:					
		Title:					Date:					



SUPPLEMENTAL LABORATORY ACCREDITATION FORM¹

Permittee Name:	Willistown To	ownship Chest	er County							
Address:	688 Sugarto	wn Rd								
	Malvern,PA	19355-3302								
	PERMIT N				MONITORI Year/Mo					
1596405							то			
PARAMET	ΓER	ANALYS	IS METHOD		LAB NAM	E		LAB II	O NUMBE	R ²
а										
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I certify under penalt designed to assure th manage the system, belief, true, accurate, imprisonment for know	nat qualified per or those persor and complete.	sonnel properly on the second	gather and evaluate assible for gathering t	the informati he information	on submitted on, the inform	l. Based on mation submitte	ıy inqui ed is, to	ry of the po the best	erson or pe of my know	rsons who ledge and
Name/Title Princ	cipal Executi	ve Officer	Phone:		Sign	nature of Pri Aut	ncipal horize	Executived Agent	ve Officer	or
			Date:							

¹ Submit this form with the first Discharge Monitoring Report (DMR) or Annual Report, where sample results are submitted to the Department for compliance purposes. You do not need to send this form to the Department again UNLESS there has been a change to the lab(s), parameter(s) or method(s) of analysis.

² For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SPECIAL CONDITIONS

Water Quality Management Permit No. 1596405

Penns Preserve WWTP Willistown Township, Chester County

This permit is subject to the following special conditions:

I. Effluent from the sewage treatment plant shall be sampled from a point after the **Effluent Storage Tank** and shall be limited as follows:

	Disc	Discharge Limitations (mg/l)		Monitoring Requirements		
Parameter	Average Monthly	Average Weekly	Instantaneous Maximum	Measurement Frequency	Sample Type	
Influent			Report Daily			
Flow (gpd)	45,000		Maximum	Continuous	Meter	
Effluent	Monitor/		Report Monthly			
Flow (gpd)	Report		Total	Continuous	Meter	
CBOD ₅	25		50	1/Month	Grab	
Total Suspended Solids	30		60	1/Month	Grab	
Fecal Coliform	200/1	100ml as geometric average		1/Month	Grab	
	Within lim	nits of $\overline{6.0}$ to	9.0 standard units at			
pН		all tin	nes	1/Month	Grab	

Additional treatment requirements include the satisfactory disposal of sludge and the reduction of quantities of oils, greases, acids, alkalis, toxic, taste and odor producing substances, inimical to the public interest to levels which will not pollute the receiving waters.

Monitoring results shall be reported monthly on the Discharge Monitoring Report (DMR). The term "composite" sample means a combination of individual samples collected at regular intervals over a time period. The term "grab" sample means an individual sample collected in less than 15 minutes. Samples and measurements taken as required, herein, shall be representative of the volume and nature of the monitored discharge.

II. Copies of monthly Discharge Monitoring Reports must be submitted within 28 days of the end of the monitoring period to:

Department of Environmental Protection Southeast Regional Office Water Management 2 East Main Street Norristown, PA 19401

III. Unless, otherwise, specified in this permit, the test procedures for analysis of pollutants shall be those contained in 40 C.F.R. Part 136, or alternative test procedures approved pursuant to that Part. For the analysis of CBOD5, consult Section 507 of Standard Methods.

IV. If the permittee monitors any pollutant more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

V. Groundwater Monitoring Requirements

The permittee shall effectively monitor the quality of the groundwater. The parameters to be tested, and frequency of analysis and other monitoring requirements shall be as follows:

- **A.** Quarterly analysis of groundwater sampled at groundwater monitoring wells **MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8** shall consist of: static water level, sampling depth, turbidity, pH, chloride, total phosphorus, ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, total dissolved solids, fecal coliform, and alkalinity.
- **B.** Annual analysis of groundwater sampled at all groundwater monitoring wells shall consist of: total solids, settleable solids, suspended solids, total iron, total manganese, sulfate, and sodium.
- **C.** Groundwater elevations must be measured prior to purging the groundwater monitoring well.
- **D.** Before collection of the groundwater sample, a groundwater monitoring well shall be properly purged and allowed to recover to at least 90 percent of the well volume that was present prior to purging.
- **E.** All groundwater samples shall be collected from within the top five feet of the water elevation within the well column.

VI. Groundwater Monitoring Data Reporting Requirements

A. Annual Groundwater Report

All groundwater data shall be submitted to DEP **annually** and be in **report form**. The report shall be due to the Department of Environmental Protection (DEP) within 28 days of the end of the month of permit issuance. For example, if your permit was issued on March 4th, then your annual report is due by April 28th.

The annual report shall be mailed under separate cover and addressed to:

Department of Environmental Protection Southeast Regional Office Clean Water Program 2 East Main Street, Norristown, PA 19401 Attention: Hydrogeologist, Planning Section

The Annual Groundwater Monitoring Report shall include the following information:

- 1. General Information
 - a. Facility name
 - b. Facility permit number
 - c. Facility location (including municipality and county)
 - d. Facility contact information:
 - i. permittee name, address, and telephone number
 - ii. contact name and title
 - iii. facility operator name, address, and telephone number
 - iv. facility consultant name, address, and telephone number
- 2. Site Data

- a. A brief narrative that provides the date and description of any facility event which may have impacted any part of the groundwater monitoring program. (e.g., collapse of groundwater monitoring well, etc.).
- b. Average effluent flow for the year covered by the report.
- c. In tabular form, the following information needs to be provided for at least the last 5 years of system operation:
 - i. Date of sampling.
 - ii. Groundwater elevation.
 - iii. Sampling depth.
 - iv. Identification of upgradient and downgradient wells.
 - v. The results of the analysis of the samples.
- d. Background groundwater data generated prior to system start-up. This information is absolutely needed and needs to be included in the data tabulation.

B. Comprehensive Groundwater Evaluation (CGE)

As part of the facility's 5-year permit renewal application, the permittee shall submit a report that is a result of a comprehensive evaluation of the systems impact on groundwater. A Registered P.G. must identify any trends which may pose a threat to human health or certify that none are present. Should adverse impacts to groundwater be identified, the permittee needs to recommend actions to address the potential threat.

C. Groundwater Background Report

Within 60 days of system start up, or upon issuance of permit renewal a Groundwater Background Report shall be submitted to DEP. The report shall include the follow information:

1. Site Information

- a. Brief narrative, including site limitations.
- b. Soil type and bedrock lithology beneath the absorption areas.
- c. Site drawings showing general location of absorption fields and monitoring wells. Drawings must show site topography.
- 2. Construction details of each groundwater monitoring well shall include:
 - a. Well depth.
 - b. Casing depth.
 - c. Static water levels.
 - d. Surface elevation.
 - e. Well log.
 - f. Water bearing zones.
 - g. Top of casing elevation.
 - h. Ground surface elevation.

The Groundwater Background Report is a one-time report. Should future changes or additions occur for any information in this section, an addendum that can be added to the report is all that is needed to update this report.

VII. Conditions for Spray Fields in Operation:

- A. Application of the effluent shall be managed to prevent runoff from the permitted spray fields and ponding of effluent.
- B. No irrigation is to occur on frozen soils.
- C. No irrigation is to occur if more than 0.5 inches of rainfall has fallen during the previous 24 hours.
- D. The operator is to assess soil moisture content and soil/vegetation conditions frequently. It is the operator's responsibility to inspect the fields on a routine basis to prevent and/or address damage to the irrigation fields.
- E. The spray fields shall be maintained to ensure that vegetation does not interfere with or impair proper operation of the spray heads.
- F. All non-forested spray fields must be maintained in perennial grass cover. Each growing season, the grasses must be harvested by cutting, with clippings removed off the spray fields.
- G. Fallen trees in wooded spray fields are required to be harvested. All work must be conducted during dry or frozen soil conditions to prevent damage to the soil.
- H. The permittee shall include with the monthly Discharge Monitoring Report a Supplemental Land Application System Form 3800-FM-BPNPSM0449 that indicates the gallons per day discharged to each of the constructed zones.
- I. Effluent flows to each spray field must be consistent with the maximum hydraulic loading requirements of the following tables, which provide the weekly maximum irrigation gallons for each zone.

MAXIMUM WEEKLY HYDRAULIC LOADINGS IN GALLONS PER ZONE

Zone 1 (Phase 1 Constructed) Well Drained Soils 6.81 acres Grass Field

Month	In/ac/wk	(gallons/week)
January	0.50	92,454
February	0.50	92,454
March	1.50	277,362
April	1.50	277,362
May	2.00	369,816
June	2.50	462,270
July	2.50	462,270
August	2.50	462,270
September	2.50	462,270
October	2.00	369,816
November	1.50	277,362
December	0.50	92,454

Zone 2 (Phase I Constructed) Moderately Well Drained Soils 2.15 acres Grass Field

Month	In/ac/wk	(gallons/week)
January	0.50	29,189

February	0.50	29,189
March	0.50	29,189
April	1.00	58,378
May	1.00	58,378
June	1.50	87,566
July	1.50	87,566
August	1.50	87,566
September	1.00	58,378
October	1.00	58,378
November	0.50	29,189
December	0.50	29,189

Zone 3 (Phase II) Moderately Well Drained Soils 3.81 acres Forested

Month	In/ac/wk	(gallons/week)
January	0.50	51,725
February	0.50	51,725
March	0.50	51,725
April	1.00	103,451
May	1.00	103,451
June	1.50	155,176
July	1.50	155,176
August	1.50	155,176
September	1.00	103,451
October	1.00	103,451
November	0.50	51,725
December	0.50	51,725

Zone 4 (Phase II) Well Drained Soils 3.94 acres Grass Field

Month	In/ac/wk	(gallons/week)
January	0.50	53,490
February	0.50	53,490
March	1.50	160,471
April	1.50	160,471
May	2.00	213,961
June	2.50	267,451
July	2.50	267,451
August	2.50	267,451
September	2.50	267,451
October	2.00	213,961
November	1.50	160,471
December	0.50	53,490

VIII. Storage Lagoon Management

A. The wastewater level in the storage lagoon shall be managed within the low and high-water level parameters as designed. The water level shall be controlled so that a freeboard of at least 24 inches is maintained, at all, times. The Department must be notified if the water level is anticipated to enter freeboard.

IX. Conditions for Phase II Spray Field Construction

- A. The Department must be notified at least two (2) weeks prior to the start of any construction activity on the system so that a pre-construction meeting with the Department can be held. Representatives from the permittee, design engineer, and system contractor must attend the pre-construction meeting.
- B. Prior to any construction activity, soil moisture levels, as confirmed by the Department, shall be such that a sample of natural mineral soil taken from the level of the maximum excavation will crumble if in a ball. Should any rain event occur during installation, the installation shall stop, and the site soil moisture levels are to be re-tested before work may proceed.
- C. At no time shall any material be stockpiled on the spray field areas. Care shall be exercised during construction to prevent undue compaction and damage to the soils and system. Only lightweight, low compaction equipment (less than 15,000 pounds; less than 6.5 pounds per square inch ground pressure) may be used on or in the irrigation fields.
- D. No roads or permanent paths may be constructed through the irrigation fields.
- E. When the system is complete and before start-up, the permittee shall notify the Department in writing that the system is complete and ready for inspection. All fields shall have established and sufficient vegetative cover to prevent soil erosion and run off.

X. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place, date, and time of sampling or measurement.
- B. The person(s) who performed the sampling or measurement.
- C. The dates the analyses were performed.
- D. The person(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The results of such analyses.

XI. Recordkeeping and Retention

The permittee shall keep records of operation and efficiency of the wastewater treatment facilities. All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three-year period shall be extended as requested by the Department.

XII. Laboratory Certification

The Environmental Laboratory Accreditation Act of 2002 requires that all environmental laboratories register with the Department of Environmental Protection. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by the Department relating to the protection of the environment or of public health, safety, and welfare.

XIII. The authorization to discharge contained in Section C of this permit shall expire in five years from the date of issuance, or reissuance. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date). In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be

automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal. The application for renewal shall be submitted on the appropriate Water Quality Management Part II Application forms and shall include a tabulated summary of all groundwater monitoring data for the previous five years, including a discussion of groundwater quality trends resulting from this discharge.

7. OPERATING EXPENSES



Willistown Township 2020 Operating and Capital Budget Proposal



November 25, 2019

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5.	2020 Operating, Sewer and Capital Budget Proposal Summary	Page 9
6.	2020 Budget Proposal	Page 15



Board of Supervisors of Willistown Township Chester County

688 Sugartown Road, Malvern, PA 19355 Phone: 610.647.5300 Fax: 610.647.8156

November 26, 2019

Board of Supervisors Willistown Township 688 Sugartown Road Malvern, PA 19355

Dear Board of Supervisors:

It is my pleasure to present the 2020 Operating, Capital and Sewer budgets. These budgets represent the culmination of a process that started in August and involved hours of hard work by the Board of Supervisors and Township staff. Without this effort, I would not be able to present these budgets and the contributions of all are gratefully acknowledged and appreciated.

The 2020 Budget, as proposed, is balanced will allow the Township to continue providing the highest level of services, with no increases in taxes, sewer rates or permit fees. The real estate tax millage of 0.28 mills is among the lowest in Chester County.

As always, Willistown Township will continue to provide the highest level of service possible that exceeds in value the taxes paid by the average property owner.

This would not be possible without a carefully executed economic strategy developed by the Board of Supervisors. The Board takes a conservative spending approach that results in an annual surplus. By the end of 2019, a General Fund Surplus is projected of \$788,000. Seventy-seven percent (77%) of that surplus, \$605,000, will be transferred to the Capital Reserve Fund, with the balance remaining in the General Fund.

Overall, the Township's proposed 2020 General Fund Budget of \$9,106,162 reflects a minimal increase of 3.1% as compared to that of the prior year. Costs under the General Government category have actually <u>decreased</u> by 1.5%. Healthcare coverage costs are increasing by only 2%, which is extremely low despite current market conditions.

The 2020 Budget Proposal also includes funding for a \$647,000 capital spending plan, reflecting an increase of only one percent (1%) as compared to the prior year. The Capital Budget includes funding across all Township Departments and is highlighted on page five (5) of this document.

The Board of Supervisors continues to support Fire and EMS services in the Township by allocating an additional 10% for funding to the four Fire Companies who service the Township. Additionally, \$25,000 is included to fund a study and recommendations on the future of firefighting and emergency medical services in the Township.

In the pages that follow, I explain Willistown's Fund Structure and I provide details about the categories of revenues and funds in Willistown Township. Please refer to these details as you consider the 2020 Budget Proposal and feel free to contact me directly if you have any questions, concerns, or comments.

I assure the Board of Supervisors and the Willistown residents that the Township will continue to make prudent financial decisions in 2020. With the continued cooperation of the Willistown community, the staff will continue to provide high quality services in the most cost-effective and efficient manner possible.

I would like to thank the Board of Supervisors and the Township's Department Heads who assisted in the budget process, in particular Finance Director Martin McKenzie.

The Board of Supervisors has set December 16, 2019 at 7:00 p.m. for the hearing and adoption of the proposed 2020 budgets.

I respectfully submit and officially post the proposed 2020 Operating, Sewer and Capital Budgets for Willistown Township and recommend their adoption.

Sincerely,

Saffy Slook

Township Manager

Proposed 2020 Capital Budget

Public Safety

The Police department requests funding in the amount of \$114,960, for the following: the replacement of two (2) police vehicles, new tasers and IT upgrades to the Police Building.

Public Works

The Public Works department requests funding in the amount of \$483,000. This includes: one (1) replacement dump truck, stormwater improvements, replacement equipment, facility and bridge work and additional funding toward the Township's Road Resurfacing program.

Parks and Recreation

The Parks & Recreation department has requested \$40,000 in funding to replace playsets at Greentree Park.

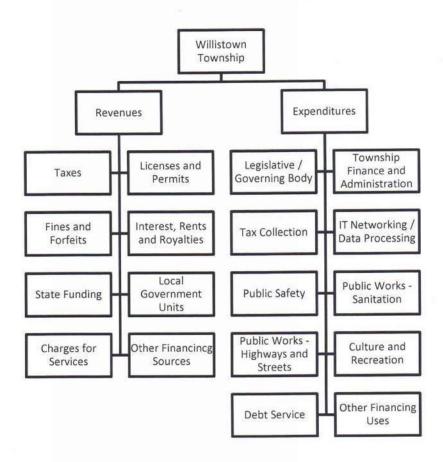
Administration

The Administration department has requested \$10,000 in funding to complete the implementation requirements of a new accounting software package that was purchased last year.

Willistown Township Revenue and Expense Categories

As required by the Pennsylvania Second Class Township Code, the proposed budget reflects the major categories of revenues and expenditures. A major category is defined as a group of related revenue or expense items, the combined total of which is listed as a line item.

The proposed budget includes the following major categories of revenues and expenditures within each fund that is available for appropriation by the Board of Supervisors.



Willistown Township Fund Structure

1. Governmental Funds for General Appropriation

The **General Fund** is the Township's primary operating fund which accounts for all financial resources except those that are legally or administratively required to be accounted for in another fund. Although the operating budget includes separate displays for the *General Fund*, the *Operating Reserve Fund*, and the *Capital Reserve Fund*, it is important to note that these accounts are consolidated for financial reporting and auditing purposes.

2. Governmental Funds for Restricted Purposes

The **Open Space Fund** is largely restricted to the acquisition of parkland and open space for the benefit of the public. In addition, Act 115 of 2013 authorizes the Township to annually expend up to 25% of the accumulated fund balance, to develop, improve, design, engineer and maintain property acquired for open space under State Law.

The **Bartram Bridge Fund** is utilized to account for the operating and capital expenditures associated with the Bartram Bridge Joint Preservation Board. The Joint Preservation Board identifies problems and recommends plans and programs to the respective governing bodies of Willistown and Newtown Townships for the repair, supervision, operation and maintenance of the Bartram Covered Bridge.

Sometimes referred to as the State Highway Aid Fund, the **State Liquid Fuels Fund** is utilized to account for receipts from the State Motor License Fund and allowable highway expenditures.

3. Proprietary Funds for Restricted Purposes

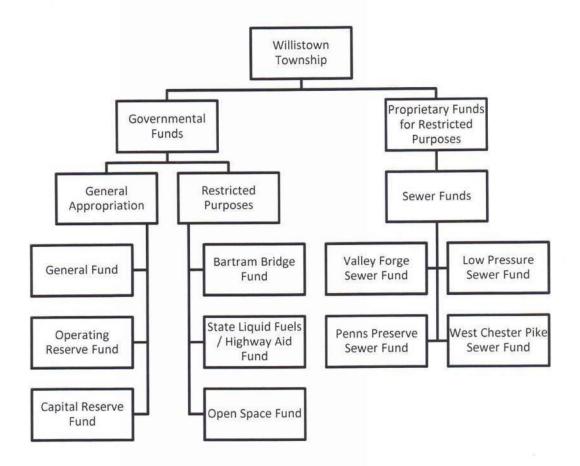
The Township's Sewer Funds are used to account for transactions related to the billing and collection of sanitary sewer fees, expenditures, and other transactions related to the collection, conveyance, and treatment of wastewater.

The **Valley Forge Sewer Fund** is used to account for service provided to customers in the area whose sewage is conveyed to the Valley Forge Sewer Authority through the Valley Creek Trunk Sewer in Tredyffrin Township.

The **Low Pressure Sewer Fund** is used to account for services provided to those customers whose properties lie at a lower elevation than the gravity sewer mains, and therefore require sewage grinder pumps to evacuate their sewage into a low pressure sewer main until it reaches the gravity sewer main.

The **Penn's Preserve Fund** is used to account for services provided to the customers in the Penn's Preserve service area.

The **West Chester Pike Sewer Fund** is used to account for capital costs associated with the extension of sanitary sewer service to accommodate thirteen residential properties on the south side of West Chester Pike just west of Street Road.



Willistown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

	Governme	Governmental Funds for General Appropriation	General	Governir	Governmental Funds for Restricted Purposes	r Restricted P	urposes	Proprie	tary Funds for	Proprietary Funds for Restricted Purposes	rposes	
	General	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Projected Balance at December 31, 2019	\$5,092,808	\$1,862,876	\$1,066,964	\$4,509,005	\$14,332	\$246,886	\$524,792	\$128,488	\$3,522,687	\$332,934	\$123,879	\$17,425,651
Revenue:												
Real Estate Taxes	\$347,000	i		i	E	-			3			\$347,000
Local Service Tax	\$275,000	1	2	*				1.	•			\$275,000
Real Estate Transfer Tax	\$630,000	ā	*	Y	-	•	ii ii	•			•	\$630,000
Earned Income Tax	\$6,448,560		1	\$725,000	1		1	•	1		1	\$7,173,560
Fines. Forfeitures and Other Costs	\$23,000	£	1	ř	15			•	•	1	1	\$23,000
Cable Franchise Fees	\$300,000	1	•	1	-	•	1	•			1	\$300,000
Interest Dividends and Rents	\$75,000	\$18,000	\$10,000	\$35,000	\$150	\$2,000	\$5,000	\$2,000	\$30,000	\$1,000	\$1,000	\$179,150
Intergovernmental Revenues	\$374,450	1	•		\$1,500		\$386,198	1	•	'	1	\$762,148
Park & Recreation Fees	\$15,000	.1	1	- VIII			10	•		1	7.	\$15,000
Charges for Services	\$510,994	.1	1	100	1	•	1	\$146,608	\$1,858,811		\$65,800	\$2,582,213
Miscellaneous	\$23,158	1	1	8 8		1	.1		•			\$23,158
Interfund Transfers	\$84,000	1			\$1,500	•	E .	1	•			\$85,500
Total Revenue	\$9,106,162	\$18,000	\$10,000	\$760,000	\$3,150	\$2,000	\$391,198	\$148,608	\$1,888,811	\$1,000	\$66,800	\$12,395,729
Total Evocaditures by Denartment			The same of									
Coparal Coverment	\$1 726 030	1	\$10,000	\$1,000	\$3,340	•	1	\$4,000	\$278,609	•	•	\$2,022,979
Sanitary Sewer Operations		34	-			1	1	\$172,350	\$1,929,289	1	\$63,000	\$2,164,639
Public Works	\$1,001.758	t	\$483,000		1	•	\$410,000	•	•	1	•	\$1,894,758
Culture & Recreation	397,925	1	\$40,000	\$552,760	1.0	•	10	•	•	•		\$990,685
Public Safety - Police	\$5,410,449	1	\$114,960		*	1		1	•	•		\$5,525,409
Public Safety - Fire	\$568,500	.1					3.	,				\$568,500
Interfund Transfers	\$1,500	1	•				3			2.0	1	\$1,500
Total Expenditures	\$9,106,162	*	\$647,960	\$553,760	\$3,340		\$410,000	\$176,350	\$2,207,898	•	\$63,000	\$13,168,470
Net Activity For Year	(\$0)	\$18,000	(\$637,960)	\$206,240	(\$190)	\$2,000	(\$18,802)	(\$27,742)	(\$319,087	\$1,000	\$3,800	(\$772,741)
Projected Cash Balance at December 31, 2020	\$5,092,808	\$1,880,876	\$429,004	\$4,715,245	\$14,142	\$248,886	\$505,990	\$100,746	\$3,203,601	\$333,934	\$127,679	\$16,652,910

Willistown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

Capital Reserve Fund Open Space Fund Barfram Life Insurance Municipal Fund State Liquid Sewer Fund Penns Preserve Sewer Fund Valley Forge Sewer Fund West Preserve Sewer Fund Life Sewer Fund Penns Sewer Fund West Sewer Fund Life Sewer Fund Penns Sewer Fund West Sewer Fund Life Sewer Fund Penns Sewer Fund Penns Sewer Fund Life Sewer Fund Penns Sewer Fund <th></th> <th>Governm</th> <th>Governmental Funds for General Appropriation</th> <th>r General</th> <th>Governn</th> <th>Governmental Funds for Restricted Purposes</th> <th>or Restricted F</th> <th>urposes</th> <th>Proprie</th> <th>stary Funds for</th> <th>Proprietary Funds for Restricted Purposes</th> <th>rposes</th> <th></th>		Governm	Governmental Funds for General Appropriation	r General	Governn	Governmental Funds for Restricted Purposes	or Restricted F	urposes	Proprie	stary Funds for	Proprietary Funds for Restricted Purposes	rposes	
S S S S S S S S S S	¥	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
\$200,000													
mt. Computer Pkge - \$10,000 - \$1,000 -	Proposed Capital Expenditures Detail by Dept.:												
mt. Computer Pkge \$10,000 \$10,000 \$10,000 \$135,000 \$135,000 \$135,000 \$135,000 \$135,000 \$135,000 \$135,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$112,600 \$112,600 \$112,600 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000	General Government					9		d					
Nymdi/Spring)	Acctg/Permitting/Land Mgmt. Computer Pkge	•		\$10,000	k		•				•		\$10,000
FY50) - \$200,000 - <t< td=""><td>Sanitary Sewer Operations</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></t<>	Sanitary Sewer Operations												X
Fy50) -		•								31			ı.
Hwynd/Spring) -	Public Works					4	d						000 0000
F750) F781 F872	Storm Water (Sunset/Chetwynd/Spring)		(4)	\$200,000	•		•		•	•	•		\$200,000
Fig. 1. S48,000	New Dump Truck (Replace F750)	•	10	\$135,000	10	-		1		1	•	•	\$135,000
5)	Public Works Facility work/Bridges	4	*	\$48,000	-		•				1	1	\$48,000
5)	Asphalt Hot Mix Hauler						•	\$32,000	*:	1		i.	\$32,000
m	Front End Loader (yr. 1 of 5)				0			\$19,000					\$19,000
2) - \$40,000 \$175,000 \$175,000	Matching Funds Grant	•			No.	Service of the servic		\$72,000					\$72,000
2) \$40,000	2020 Resurfacing Program	1		\$100,000		1	•	\$175,000	•		•	1	\$275,000
2) \$40,000 \$92,000 \$12,960 \$547,960 \$547,960 \$547,960 \$10,000 \$10,000 \$10,000 \$10,000													•
2) - \$40,000	Culture & Recreation												. 000
	Greentree Park Playsets (2)	•	ř.	\$40,000		•		5	•		•		000,044
\$92,000													
- \$12,000 \$298,000 \$647,960 \$298,000	Public Safety - Police			602 000	-				,			1	\$92,000
\$10,000 - \$10,000 - \$298,000 - \$298,000 - \$	New Venicles			612 080							•	•	\$12,960
\$647,960 - \$288,000	Police Equipment	•		\$10,000						•		K	\$10,000
. \$647,960	Police Building IT	•		910,000				000					COAE OCO
	Total Capital Expenditures	•	•	\$647,960		•		\$298,000	•		•		4343,300

Willstown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

	Governm	Governmental Funds for General Appropriation	· General	Governn	Governmental Funds for Restricted Purposes	r Restricted F	nrposes	Proprie	tary Funds for	Proprietary Funds for Restricted Purposes	rposes	
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
						100						
Proposed Expenditures by Dept. and Category:												
General Government:												
Wages and Salaries	\$637,000	*	ı	•		10		r.	\$141,191	t.	•	\$778,191
Employee Benefits	\$333,748	. 1	3	•	- 10	*	*	1	\$57,418	1.	•	\$391,166
Materials & Services	\$641,472	1		\$1,000	\$3,000		•	\$4,000	\$63,000	1	1	\$712,472
Utilities	\$40,000	1	T.	*	\$340			(1 0)	1			\$40,340
Vehicle Repairs & Fuel	\$6,100	,		•	- Garage		1		1	t	•	\$6,100
Insurance	\$67,710		.1	1		P	1	*	\$17,000	T	•	\$84,710
Debt Service				•			1	13	•	•		1
Capital Expenditures	•		\$10,000				•	E.				\$10,000
Interfund Transfers		3			1	1				r:	1)	t
Total General Government	\$1,726,030	•	\$10,000	\$1,000	\$3,340		2	\$4,000	\$278,609		1	\$2,022,979
Sanitary Sower Operations												
Salay and Wades					3		,	.1	\$168,926	.1		\$168,926
Employee Benefits	•	•	,	-			1	•	\$88,228			\$88,228
Materials & Services	*						1	\$120,350	\$1,221,016	0.5	\$63,000	\$1,404,366
Utilities	,	1				3	1	\$27,000	\$56,500	.1.	•	\$83,500
Vehicle Repairs & Fuel		1	1	-	(30)	•		,	1	OL.	1	.1.
Insurance	*				*	•	•	1		4.		1
Debt Service	•	3	1		*		1	•	\$394,619		1	\$394,619
Capital Expenditures	•	300	1.	4			1	\$25,000	•	*	1	\$25,000
Interfund Transfers	•	E	10	ř.	T.	1		1	•	•	1	1
Total Sanitary Sewer Operations	•	1	1	•	*	•	1	\$172,350	\$1,929,289	1	\$63,000	\$2,164,639

Willstown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

	Governm	Governmental Funds for General Appropriation	r General	Governn	Governmental Funds for Restricted Purposes	r Restricted P	nrposes	Proprie	stary Funds fo	Proprietary Funds for Restricted Purposes	rrposes	
	General	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Public Works:												4
Salary and Wages	\$445,383	24	•	*		-		1	•	T/	•	\$445,383
Employee Benefits	\$238,475	.1			1		•		•		•	\$238,475
Materials & Services	\$180,900	1		•		•	\$82,000	5.0		1	•	\$262,900
Utilities	\$16,000	1			-		\$30,000	C		•	1	\$46,000
Vehicle Repairs & Fuel	\$69,000	1		3	-	•		t	•	•	100	\$69,000
Insurance	\$52,000	336	1	3	1			9	•	,	•	\$52,000
Debt Service		ï	•				•	•	1	.1	1	
Capital Expenditures	•	1	\$483,000	*			\$298,000	10	1	1	1	\$781,000
Interfund Transfers	•	1	•	1		9		*	1		•	
Total Public Works	\$1,001,758	r	\$483,000	•			\$410,000	•	,		•	\$1,894,758
				(
Culture & Recreation:												
Salary and Wages	\$101,906	E	***		- 4	•	1	•			•	\$101,906
Employee Benefits	\$44,725	3				•	1	Į.			•	\$44,725
Materials & Services	\$245,794	7.0		-			1	•	r		1	\$245,794
Utilities	\$5,500	r			1	9		•	•	1	,	\$5,500
Vehicle Repairs & Fuel	*	1	·		1,	•		•	•	•	•	1
Insurance	•	3	•	•	1	*		•	•	•	•	1 1
Debt Service		1	- 10	\$552,760	•	1	3	•	•		1	\$552,760
Capital Expenditures	•	t	\$40,000		t		1	1	4	,	1	\$40,000
Interfund Transfers	*	1	1		E	1			1			
Total Culture & Recreation	\$397,925	9	\$40,000	\$552,760		•	•	*	10	*	15	\$890,685

Willstown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

Control Salety - Police: Control Salety - Police: Control Salety - Police: Control Salety - Police: Police Salety - Police: State Light of Police Salety - Police: Police Salety - Police: Salety - Police:<		Governm	Governmental Funds for General Appropriation	r General	Govern	Governmental Funds for Restricted Purposes	or Restricted F	nrposes	Proprie	Proprietary Funds for Restricted Purposes	Restricted Pu	rposes	
\$2.910.373 \$1,825.577 \$2,826.500		General	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
\$259.007	Public Safety - Police:												
\$1826.501	Salary and Wages	\$2,910,373	•	1	•	*			E	*		• 12	\$2,910,373
\$5296 500	Employee Benefits	\$1,825,571	•	•			-	•		•	1	•	\$1,825,571
\$32500 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$200,000 \$2125,000	Materials & Services	\$296,500	•	1	•	-		1	8.		1		\$296,500
\$55,000	Utilities	\$32,500	1	,	•	-		•	**	•	1	1	\$32,500
\$200,000	Vehicle Repairs & Fuel	\$59,000		81		- 10	•	•		9.	x	1	\$59,000
\$6,410,449	Insurance	\$200,000		2100	•	1		•			×		\$200,000
\$\$.410,449	Debt Service	\$86,505		1				-		1	3	•	\$86,505
\$5,410,449	Capital Expenditures	•	1	\$114,960	٠	-	•	8		100	C	1	\$114,960
\$5,410,449	Interfund Transfers	1	•		1		· ·	1			1	•	1
\$ \$125,000	Total Public Safety - Police	\$5,410,449	•	\$114,960	(1); 1	•	•	•	\$5,525,409
\$125,000 \$378,000 \$37	Public Safety - Fire:					100							
\$125,000 \$12	Salary and Wages			15				1	•	1		•	1
\$378,000 \$50,000 \$50,000 \$1,500 \$1,500 \$5,68,500 \$1	Employee Benefits	\$125,000	1					1		1	6	1	\$125,000
\$56,000	Materials & Services	\$378,000	9				*	•	•		1	•	\$378,000
\$15,500	Utilities	\$50,000	1	-			1		•	•	•	•	\$50,000
\$15,500	Vehicle Repairs & Fuel		•	ď			•	E/	1	•	•		1 00
\$\$68,500	Insurance	\$15,500		-			1	1		1	10		000,014
\$\$68,500	Debt Service	•	34.)	-			•	•	•	ï		•	12
\$568,500	Capital Expenditures	10	1					1	3		1	•	1
\$1,500	Interfund Transfers	1		.ti			T.		*	ı		•	
\$1,500	Total Public Safety Fire	\$568,500	354	•				•	•		•		\$568,500
	Interfund Transfers	\$1,500	1					1		000	3	24	\$1,500
	Total Interfund Transfers	\$1,500	a	•			*		•	C			\$1,500

Willstown Township 2020 Operating and Capital Budget Proposal All Funds Available for Appropriation

	Governm	Governmental Funds for General Appropriation	r General	Governn	Governmental Funds for Restricted Purposes	or Restricted F	urposes	Proprie	tary Funds for	Proprietary Funds for Restricted Purposes	rposes	
	General	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Total Expenditures by Category												
Salary and Wages	\$4.094.662	3	•	•	•		•	10	\$310,117	10	1	\$4,404,779
Employee Benefits	\$2 567 519		.1	9	a	-	•	1	\$145,646		1	\$2,713,165
Materials & Services	\$1 742 666			\$1,000	\$3,000	4	\$82,000	\$124,350	\$1,284,016	.1	\$63,000	\$3,300,032
Hillips	\$144 000	1		1	\$340		\$30,000	\$27,000	\$56,500	89V.	•	\$257,840
Vehicle Renairs & Fuel	\$134,100	я	3	3	-	. 9			1	100		\$134,100
losirance	\$335,210	•		1			1	×*	\$17,000		i	\$352,210
Debt Service	\$86.505	1		\$552,760				*	\$394,619			\$1,033,884
Capital Expenditures		1	\$647,960		-	•	\$298,000	\$25,000	1	1	•	\$970,960
Interfund Transfers	\$1,500	:1	•		-		3.	*		15		\$1,500
Total Expenditures	\$9,106,162	T.	\$647,960	\$553,760	\$3,340		\$410,000	\$176,350	\$2,207,898		\$63,000	\$13,168,470
	•	E			-		•	13	81		1	.0

FUND		GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
GENERAL FUND		01-301-100. R E TAX-CURRENT YRS LEVY	(345,000)
		01-301-500. REAL ESTATE TAXESLIENED	(1,000)
		01-301-600. REAL ESTATE TAXESINTERIM	(1,000)
		01-310-100. REAL ESTATE TRANSFER TAX	(630,000)
		01-310-200. EARNED INCOME - 7/8 OF 1%	(6,448,560)
		01-310-500. LOCAL SERVICES TX	(275,000)
		01-321-800. CABLE TELEVISION FRANCHISI	(300,000)
		01-331-110. VEHICLE CODE VIOLATIONS	(4,000)
		01-331-120. VIOLATIONS OF ORD., STATUTE	(16,000)
		01-331-130. FALSE ALARM VIOLATIONS	(3,000)
		01-341-000. INTEREST EARNINGS	(75,000)
		01-342-200. RENTAL OF OKE HOUSE	(2,400)
		01-354-070. PARK & RECREATION SUMMER	(8,000)
		01-354-071. PARK RENTAL	(7,000)
		01-355-010. PROPERTY TAX-PUBLIC UTILITY	(7,950)
		01-355-080. ALCOHOLIC BEVERAGE TAX	(1,050)
		01-355-130. FOREIGN FIRE INSURANCE	(125,000)
		01-355-160. REFUND AD HOC POSTRETIRE!	(450)
		01-355-165, PENSION - ACT 205	(225,000)
		01-356-000. PAYMENTIN LIEU OF TAXES	(1,564)
		01-361-300. S/D & L/D FEES	(5,000)
		01-361-340. COND. USE & ZONING HEARING	(12,000)
		01-361-350. SOIL & EROSION	(34,000)
		01-361-560. SALE OF TRICENTENNIAL BOOK	(344)
		01-362-110. SALE - ACCIDENT REPORTS	(2,000)
		01-362-120. ALARM INSTALL/APD LICENSE	(4,500)
		01-362-130. FEE - FINGER PRINTING	(350)
		01-362-150. SOLICITORS LICENSE	(1,000)
		01-362-160. PUBLIC EXPOSITION PERMITS	(1,600)
		01-362-410. BUILDING PERMITS	(405,000)
		01-362-412. ZONING PERMITS	(15,000)
		01-362-413. DUMPSTER PERMIT	(200)
		01-362-450. USE AND OCCUPANCYPERMIT	(100)
		01-362-490. BUILDERS REGISTRATION	(2,500)
		01-363-510. SNOW REMOVAL-PENNDOT	(25,000)
	20	01-381-000. HEALTH INSURANCE	(354)
		01-382-001. REFUND- HAZARDOUS WASTE	(2,000)
		01-382-021. RESTITUTION	(18,240)

GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
01-382-030. RECYCLING	(15,000)
01-389-000. P-CARD REBATE	(1,000)
01-392-091. TRANSFER FROM WELLS FARC	(84,000)
TOTAL REVENUE	(9,106,162)
01-400-156. HOSPITALIZATION	17,333
01-400-318. CODIFICATION	7,000
TOTAL GOVERNING BODY	24,333 *
01-401-003. 457 CONTRIBUTION	11,143
01-401-121, WAGES	307,906
01-401-154, RETIREE HEALTHCARE	13,000
01-401-156. HOSPITALIZATION	54,445
01-401-158. LIFE/DISABILITY INSURANCE	6,000
01-401-159. REIMBURSEMENT HEALTH	5,000
01-401-160. MEDICARE	4,464
01-401-161. SOCIAL SECURITY	19,091
01-401-162. U/E COMPENSATION ADM	304
01-401-197. 6% MUN. PENSION CONTRIBUT	16,714
01-401-200. MISCELLANEOUS BENEFITS	20,000
01-401-210. OFFICE SUPPLIES	10,000
01-401-212. POSTAGE	3,400
01-401-230. UTILITIES	15,000
01-401-231. GAS/MILEAGE	5,000
01-401-240. GENERAL EXPENSE	10,000
01-401-311. ACCOUNTING & AUDITING	37,500
01-401-312. CONSULTANT	17,000
01-401-313. ENGINEERING	30,000
01-401-314. LEGAL SERVICES	25,000
01-401-321. TELEPHONE MONTHLY CHARGE	25,000
01-401-340. SUBSCRIPTIONS	3,000
01-401-341. ADVERTISING	5,000
01-401-343. TOWNSHIP NEWSLETTER	16,800
01-401-352. INSURANCES	67,710
01-401-384. RENTL-COPIER, SCALE, METER	4,200
01-401-420. DUES-CONFERENCES-TRAININ	28,100
01-401-452. BUILDING CLEANING	10,000
01-401-455. BLD. & GROUNDS MAINT	32,000
TOTAL EXECUTIVE	802,777

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GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
01-403-116. COMMISSION - EARNED INCOM	81,000
01-403-117. COM MISSION - LST	3,772
01-403-119. TAX COLLECTION	8,500
01-403-313. POSTAGE	9,000
TOTAL TAX COLLECTION	102,272
01-407-243. IT - COM PUTERS	6,000
01-407-311. ACCOUNTING AND AUDITING	26,000
01-407-312. CONSULTANT	28,000
01-407-340. SUBSCRIPTIONS	6,500
01-407-384. EQUIPMENT RENTAL	1,000
TOTAL IT & NETWORKING SERVICES	67,500
01-410-003. 457 M A TCH	102,000
01-410-004. PHYSICALS	1,000
01-410-120. WAGES - ADMINISTRATION	609,889
01-410-122. WAGES - BIKE PATROL	2,000
01-410-123. WAGES - CRASH FOLLOW UP	1,000
01-410-124. WAGES - PUBLIC RELATIONS(D	10,000
01-410-125. WAGES - MEETINGS	5,000
01-410-126. WAGES - SCHOOL	35,000
01-410-127. WAGES - SCHOOL - ACT 180	30,000
01-410-128. WAGES - SHIFT COVERAGE	35,000
01-410-130. WAGESOFFICERS	1,870,228
01-410-131. LONGEVITY	96,256
01-410-132. WAGES HOLIDAY	49,200
01-410-133. WAESSCHOOL - OVERTIME	1,000
01-410-134. WAGES COURT	14,000
01-410-135. WAGESCRIMINAL OVERTIME	17,000
01-410-136. WAGESSICK COVERAGE	40,000
01-410-137. WAGESTRAFFIC	5,000
01-410-138. WAGES UNUSED VACATION	55,000
01-410-145. COMMUNITYRELATIONS	8,000
01-410-146. WAGES - OTHER OVERTIME	14,000
01-410-149. EMERGENCYRESPONSE TEAM	5,000
01-410-150. WAGES - OIC	7,800
01-410-154. RETIREE HEALTHCARE	84,000
01-410-155. HEALTH INSURANCE INCENTIV	8,000
01-410-156. HOSPITALIZATION	499,427
01-410-158. LIFE/DISABILITYINSURANCE	30,000

GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
01-410-159. PRESCRIPTION PROGRAM	15,000
01-410-160. MEDICARE	40,112
01-410-161. SOCIAL SECURITY	8,496
01-410-162. U/E COMPENSATION	2,000
01-410-197. MUNI PENSION 6%	7,000
01-410-210. OFFICE SUPPLIES	12,000
01-410-214. HIRING	15,000
01-410-230. UTILITIES	22,000
01-410-231. GASOLINE - POLICE CARS	32,000
01-410-237. EMERGENCYRESP. TEAM EXPL	10,000
01-410-238. CLOTHING AND UNIFORMS	32,000
01-410-239. AMMUNITION AND TARGETS	15,000
01-410-240. GENERAL EXPENSES	7,500
01-410-242. PROTECTION PERSONS/PROP	20,000
01-410-243. IT - Computers	15,000
01-410-270. TRAFFIC SAFETY	15,000
01-410-301. S.P.C.A. SERVICES	5,500
01-410-312. CONSULTANT	40,000
01-410-314. LEGAL SERVICES	12,000
01-410-317. EXPENSE ACCOUNT	5,000
01-410-320. COMMUNICATION	34,000
01-410-321. TELEPHONE MONTHLYCHARGE	10,500
01-410-329. LIVESCAN	9,000
01-410-340. SUBSCRIPTIONS	7,500
01-410-352. INSURANCES	200,000
01-410-374. REPAIRS-CARS/EQUIP-VENDO	27,000
01-410-384. RENTALS - COPIER, CAMERA	9,000
01-410-420. DUES-CONFERENCES-TRAININ	20,000
01-410-421. HIGHER EDUCATION	15,000
01-410-452. BUILDING CLEANING	15,000
01-410-455. BUILDING MAINTENANCE	30,000
01-470-101. BOND DEBT REDUCTION - POLIC	86,505
01-492-091. POLICE RETIREMENT HOSP.	132,023
01-492-600. TRANSFER - POLICE PENSION	849,513
TOTAL POLICE	5,410,449

FUND

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GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
01-411-163. FIREM ENS RELIEF ASSOC.	125,000
01-411-312. CONSULTANT	25,000
01-411-352. LIAB.(CASUALTY)INSVOLFIRE	15,500
01-411-366. WATER - FIRE HYDRANTS	50,000
01-411-540. VOLUNTEER FIRE	353,000
TOTAL FIRE	568,500
01-413-003. 457 MATCH	8,861
01-413-121. WAGES	221,527
01-413-156. HOSPITALIZATION	73,842
01-413-158. LIFE/DISABILITYINSURANCE	2,000
01-413-159. PRESCRIPTION REIMBURSEME	5,500
01-413-160. MEDICARE	3,212
01-413-161. SOCIAL SECURITY	13,734
01-413-162. U/E COMPENSATION	212
01-413-197. MUNI PENSION 6%	13,293
01-413-232. CAR 51	600
01-413-240. GENERAL EXPENSES	250
01-413-260. SMALL TOOLS & MINOR EQUIP.	5,000
01-413-312. CONSULTANT	10,000
01-413-340. SUBSCRIPTIONS	1,000
01-413-411. STATE FEE	4,500
01-413-420. DUES-CONFERENCES-TRAININ	4,000
TOTAL CODE ENFORCEMENT	367,531
01-414-003. 457 MATCH	2,828
01-414-120. WAGES	107,567
01-414-156. HOSPITALIZATION	21,256
01-414-158. LIFE/DISABILITYINSURANCE	1,400
01-414-159. PRESCRIPTION REIMBURSEME	1,500
01-414-160. MEDICARE	1,561
01-414-161. SOCIAL SECURITY	6,669
01-414-162. U/E COMPENSATION	144
01-414-197. MUNI PENSION 6%	4,242
01-414-240. GENERAL EXPENSES	500
01-414-251. REPAIRS - CAR 52 - ZONING	500
01-414-305. HISTORIC PRESERVATIONS	500
01-414-306. COMPREH. PLAN REVIEW	25,000
01-414-312. CONSULTANT	35,000
01-414-313. ENGINEERING & ARCHITECT	55,000

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
	01-414-314. LEGAL SERVICES	40,000
	01-414-316. COURT REPORTER	5,000
	01-414-317. ZONING HEARING & COND. US	1,200
	01-414-340. SUBSCRIPTIONS	500
	01-414-341. ADVERTISING	5,250
	01-414-420. DUES-CONFERENCES-TRAININ	3,500
	01-414-421. HIGHER EDUCATION	6,000
	TOTAL PLANNING & ZONING	325,117
	01-415-240. General Expenses	5,000
	TOTAL EMERGENCYMANAGEMENT	5,000
	01-426-341. RECYCLING CHARGES	31,500
	TOTAL RECYCLING	31,500
	01-430-003. 457 M A TCH	17,815
	01-430-120. WAGESPUB. WKS DIR.	396,474
	01-430-156. HOSPITALIZATION	149,827
	01-430-158. LIFE/DISABILITYINSURANCE	5,500
	01-430-159. PRESCRIPTION REIMBURSEME	4,000
	01-430-160. MEDICARE	6,459
	01-430-161. SOCIAL SECURITY	27,613
	01-430-162. U/E COMPENSATION	538
	01-430-180. OVERTIME	48,909
	01-430-197. MUNI PENSION 6%	26,723
	01-430-220. CLOTHING & SHOES & MEDICAL	12,000
	01-430-229. FOOD	500
	01-430-230. HEATING FUEL	3,500
	01-430-231. GASOLINE ONLY CAR 53	7,000
	01-430-240. GENERAL EXPENSES	7,500
	01-430-250. REPAIRS & MAINTENANCECA	1,500
	01-430-260. SMALL TOOLS & MINOR EQUIP.	9,500
	01-430-352. INSURANCES	52,000
	01-430-361. ELECTRIC SERVICE	6,500
	01-430-368. UNDERGROUND TANKS	4,500
	01-430-374. REPAIRS - VENDOR	1,000
	01-430-420. TRAINING-DUES-CONFERENCE	2,500
	01-430-454. GROUND MAINTENANCE	3,000

01-430-455. BUILDING MAINTENANCE

01-432-250. REPAIR AND MAINT. TRUCKS

01-432-229. FOOD

1,000 1,400

17,500

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GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
01-432-450. REPAIRS/MAINT CONTRACT	4,000
01-433-220. OPERATING SUPPLIES	17,500
01-433-372. TRAFFIC SIGNAL	6,000
01-433-450. REPAIRS/MAINT CONTRACT	6,000
01-437-250. SUPPLIES - TWP VEHICLES	23,000
01-437-374. REPAIRS - VENDOR	8,000
01-438-231. FUEL - TRUCKS	20,000
01-438-245. ASPHALT, OIL, AGGREGATES	22,000
01-438-246. MAG. CHLORIDE, MISC. ITEMS	5,000
01-438-247. STORMWATER INLETS, LIDS, PIF	12,500
01-438-313. ENGINEERING SERVICES	8,000
01-438-384. RENT OF MACHINERY & EQUIP	2,500
01-438-450. REPAIRS/MAINT - CONTRACT	25,000
01-438-452. TREE REM OVAL	20,000
01-439-384. RENT-MACHINERY & EQUIP.	7,500
TOTAL PUBLIC WORKS	1,001,758

		2020
FUND	GENERAL LEDGER ACCOUNT	Total Next
		Year Budget
	01-454-000. EVENTS-OUTSIDE VENDORS	14,500
	01-454-003. 457 M atch	4,076
	01-454-148. WAGES	101,906
	01-454-156. HOSPITALIZATION	25,243
	01-454-158. LIFE/DISABILITY	1,000
	01-454-159. PRESCRIPTION REIMBURSEME	400
	01-454-160. MEDICARE	1,478
	01-454-161. FICA	6,318
	01-454-162. PAUC	96
	01-454-197. MUNI PENSION 6%	6,114
	01-454-210. OFFICE SUPPLIES	450
	01-454-220. SUPPLIES	8,500
	01-454-230. UTILITIES	2,200
	01-454-247. SIGNAGE	8,500
	01-454-312. CONSULTANT	5,000
	01-454-314. LEGAL SERVICES	1,000
	01-454-321. COMMUNICATIONS	1,750
	01-454-340. ADV., PRINT, TRAINING, DUES, S	8,500
	01-454-361. ELECTRIC SERVICE	3,000
	01-454-366. PUBLIC UTILITY SERVICE - WAT	300
	01-454-374. RPRS. & MAINT. SERV. & CONT.	4,500
	01-454-420. DUES-CONFERENCES-TRAININ	2,600
	01-454-454. GROUNDS MAINT.	94,000
- 13	01-454-455. BUILDING MAINTENANCE	9,500
	01-456-520. MALVERN & PAOLI LIBRARIES	86,994
	TOTAL CULTURE & RECREATION	397,925

01-492-017. TRANSFER TO BARTRAMS BRII

TOTAL INTERFUND TRANSFERS

NET ACTIVITY FOR THE YEAR

TOTAL EXPENDITURES

1,500

1,500

0

9,106,162

^{*} Department within General Government subtotal

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget		
OPEN SPACE FUND	04-310-201. OPEN SPACE TAX 1/8 OF 1%	(725,000)		
	04-341-000. INTEREST	(35,000)		
	TOTAL REVENUE	(760,000)		
	04-400-532. BOND ADMIN EXPENSE 3	1,000		
	TOTAL GENERAL GOVERNMENT	1,000		
	04-470-103. BOND DEBT REDUCTION 3	350,000		
	04-472-103. BOND DEBT INTEREST 3	202,760		
	TOTAL CULTURE AND RECREATION	552,760		
	TOTAL EXPENDITURES	553,760		
	NET ACTIVITY FOR THE YEAR	(206,240)		
LOW PRESSURE FUND	07-341-000. INTEREST	(2,000)		
	07-364-120. SEWER USE CHARGE	(146,608)		
	TOTAL REVENUE	(148,608)		
	07-400-220. OPERATING SUPPLIES	2,000		
	07-400-240. GENERAL EXPENSES	2,000		
	TOTAL GENERAL GOVERNMENT	4,000		
	07-429-220. OPERATING SUPPLIES	4,000		
	07-429-240. GENERAL EXPENSES	850		
	07-429-260. SMALL TOOLS & MINOR EQUIP.	500		
	07-429-321. TELEPHONE CHARGES/ALARM	2,500		
	07-429-361. ELECTRICITY	22,000		
	07-429-366. WATER	2,500		
	07-429-370. REPAIRS & MAINTENANCE	37,500		
	07-429-454. GROUNDS MAINTENANCE	10,000		
	07-429-456. PLANT OPERATOR	60,000		
	07-429-457. LAORATORY/WELLS	7,500		
	07-429-840. CAP. PUR REPLACEMENT	25,000		
	TOTAL SANITARY SEWER OPERATIONS	172,350		
	TOTAL EXPENDITURES	176,350		
	NET ACTIVITY FOR THE YEAR	27,742		

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
VALLEY FORGE SEWER FUND	08-341-000. INTEREST EARNINGS	(30,000)
	08-364-120. SEWER USE CHARGE	(1,852,311)
	08-364-900. FEE - SEWER CERTIFICATION	(6,500)
	TOTAL REVENUE	(1,888,811)
	08-400-003. DEFERRED COMPENSATION	5,648
	08-400-140. WAGES-SEWER/CLERICAL	141,191
	08-400-156. HOSPITALIZATION	31,391
	08-400-158. LIFE INSURANCE	1,000
	08-400-160. MEDICARE	2,047
	08-400-161. FICA (SOCIAL SECURITY)	8,754
	08-400-162. U/E COMPENSATION ADMIN	108
	08-400-197. M UNI PENSION	8,470
	08-400-210. OFFICE SUPPLIES	7,000
	08-400-212. POSTAGE	500
	08-400-240. GENERAL EXPENSES	23,000
	08-400-311. ACCOUNTING / AUDITING	5,000
	08-400-314. LEGAL SERVICES	27,500
	08-400-352. INSURANCES	17,000
	TOTAL GENERAL GOVERNMENT	278,609
	08-400-386. VALLEYFORGE SEWER AUTH.	675,836
	08-400-387. TREDYFFRIN TRUNK LINE	427,480
	08-400-388. E. GOSHEN MUNICIPAL AUTH.	12,000
	08-400-532. BOND ADMIN, EXPUSBANK	539
	08-429-003. 457 MATCH	6,757
	08-429-140. WAGES-MAINTENANCE CREW	149,906
	08-429-156. HOSPITALIZATION	56,215
	08-429-158. LIFE INSURANCE	2,000
	08-429-160. MEDICARE	2,449
	08-429-161. SOCIAL SECURITY	10,473
	08-429-162. U/E COMPENSATION	198
	08-429-180. OVERTIME	19,020
	08-429-197. MUNI PENSION 6%	10,136
	08-429-220. OPERATING SUPPLIES	11,000
	08-429-230. FUEL - EMERG. GENERATORS	1,000
	08-429-240. GENERAL EXPENSES	7,500
	08-429-260. SMALL TOOLS / MINOR EQUIP.	2,000
	08-429-300. PENNSYLVANIA ONE CALL	1,200

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
	08-429-313. ENGINEERING SERVICES	30,000
	08-429-321. TELEPHONE CHARGES/ALARM	4,000
	08-429-361. ELECTRICITY	50,000
	08-429-366. WATER	1,500
	08-429-370. REPAIRS & MAINTENANCE	50,000
	08-429-454. GROUNDS MAINTENANCE	3,000
	08-429-461. TRAINING	1,000
	08-472-103. BOND INTERST - USBANK	394,080
	TOTAL SANITARY SEWER OPERATIONS	1,929,289
	TOTAL EXPENDITURES	2,207,898
	NET ACTIVITY FOR THE YEAR	319,087
W. CHESTER PIKE SEWER FUND	10-341-000. INTEREST EARNINGS	(1,000)
	TOTAL REVENUE	(1,000)
	NET ACTIVITY FOR THE YEAR	(1,000)
LOW PRESSURE FUND	11-341-000. INTEREST EARNINGS	(1,000)
	11-364-121. LOW PRESSURE MAINTENANC	(65,800)
	TOTAL REVENUE	(66,800)
	11-429-450. REPAIRS/MAINT CONTRACTS	63,000
	TOTAL SANITARY SEWER OPERATIONS	63,000
	TOTAL EXPENDITURES	63,000
	NET ACTIVITY FOR THE YEAR	(3,800)
BARTRAM BRIDGE FUND	17-341-000. INTEREST EARNINGS	(150)
	17-380-030. DONATIONS -NEWTOWN TWP.	(1,500)
	17-392-001. TRANSFER FROM GENERAL FL	(1,500)
	TOTAL REVENUE	(3, 150)
	17-400-316. MISCELLANEOUS SERVICES	3,000
	17-454-361. ELECTRIC	340
	TOTAL GENERAL GOVERNMENT	3,340
	TOTAL EXPENDITURES	3,340
	NET ACTIVITY FOR THE YEAR	190

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
CAPITAL FUND	30-341-000. INTEREST EARNINGS	(10,000)
	TOTAL REVENUE	(10,000)
	30-407-670. IT - SOFTWARE	10,000
	TOTAL GENERAL GOVERNMENT	10,000
	30-410-341. PD CAPITAL - VEHICLES	92,000
	30-410-605. PD CAPITAL - GENERAL	12,960
*	30-410-606. CAPITAL - IT	10,000
	TOTAL PUBLIC SAFETY- POLICE	114,960
	30-430-840. PW BUILDING	483,000
	TOTAL PUBLIC WORKS	483,000
	30-454-840. PARKS	40,000
	TOTAL CULTURE & RECREATION	40,000
	TOTAL EXPENDITURES	647,960
	NET ACTIVITY FOR THE YEAR	637,960
OPERATING RESERVE FUND	32-341-000. INTEREST	(18,000)
	TOTAL REVENUE	(18,000)
	NET ACTIVITY FOR THE YEAR	(18,000)
STATE LIQUID FUELS FUND	35-341-000. INTEREST EARNINGS	(5,000)
	35-355-050. STATE MOTOR LICENSE GRANT	(365,838)
	35-355-150. STATE TURNBACK FUNDS	(20,360)
	TOTAL REVENUE	(391,198)
	35-432-220. SALT	80,000
	35-432-221. ANTI-SKID	2,000
	35-433-361. PUBLIC UTILITYTRAFFIC LIGHT	8,000
	35-433-840. CAPITAL PURCHASE REPLACE	72,000
	35-434-361. PUBLIC UTILITY STREET LIGHTS	22,000
	35-438-450. REPAIRS/MAINT - CONTRACT	175,000
	35-438-740. CAPITAL PURCHASE NEW	51,000
	TOTAL PUBLIC WORKS	410,000
	TOTAL EXPENDITURES	410,000
	NET ACTIVITY FOR THE YEAR	18,802

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
MUNICIPAL LIFE INSURANCE FUND	66-341-000. INTEREST EARNINGS	(2,000)
	TOTAL REVENUE	(2,000)
	NET ACTIVITY FOR THE YEAR	(2,000)
	TOTAL REVENUE	(12,395,729)
	TOTAL EXPENDITURES	13,168,470
	NET ACTIVITY FOR THE YEAR	772,741

	Governmental Funds for General Appropriation			Governn	Governmental Funds for Restricted Purposes		Proprietary Funds for Restricted Purposes					
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Projected Balance at December 31, 2020	\$5,800,000	\$1,868,000	\$1,204,700	\$4,700,000	\$11,500	\$245,000	\$645,000	\$125,000	\$3,500,000	\$333,000	\$130,000	\$18,562,200
Revenue:												<u> </u>
Real Estate Taxes	\$362,000	-	-	-	-	-	-	-	-	-	-	\$362,000
Local Service Tax	\$275,000	-	-	-	-	-	-	-	-	-	-	\$275,000
Real Estate Transfer Tax	\$660,000	-	-	-	-	-	-	-	-	-	-	\$660,000
Earned Income Tax	\$6,410,000	-	-	\$725,000	-	-	-	-	-	-	-	\$7,135,000
Fines, Forfeitures and Other Costs	\$21,200	-	-	-	-	-	-	-	-	-	-	\$21,200
Cable Franchise Fees	\$300,000	-	-	-	-	-	-	-	-	-	-	\$300,000
Interest Dividends and Rents	\$20,000	\$4,080	\$2,400	\$11,000	\$40	\$600	\$1,200	\$400	\$7,800	\$720	\$360	\$48,600
Intergovernmental Revenues	\$349,450	-	-	-	\$1,500	-	\$356,761	-	-	-	-	\$707,711
Park & Recreation Fees	\$15,000	-	-	-	-	-	-	-	-	-	-	\$15,000
Charges for Services	\$532,363	-	-	-	-	-	-	\$146,608	\$1,939,500	-	\$62,400	\$2,680,871
Miscellaneous	\$42,804	-	-	-	-	-	-	-	-	-	-	\$42,804
Interfund Transfers	\$107,000	-	-	-	\$1,500	-	-	-	-	-	-	\$108,500
Total Revenue	\$9,094,817	\$4,080	\$2,400	\$736,000	\$3,040	\$600	\$357,961	\$147,008	\$1,947,300	\$720	\$62,760	\$12,356,686
Total Expenditures by Department:												
General Government	\$1,715,321	-	\$125,000	\$1,000	\$1,840	-	-	\$4,000	\$198,099	-	-	\$2,045,260
Sanitary Sewer Operations	-	-	-	-	-	-	-	\$137,300		-	\$62,760	\$2,160,923
Public Works	\$1,050,057	-	\$640,000	-	-	-	\$470,000	-	-	-	-	\$2,160,057
Culture & Recreation	393,413	-	\$40,000	\$555,760	-	-	-	-	-	-	-	\$989,173
Public Safety - Police	\$5,355,436	-	\$202,100	-	-	-	-	-	-	-	-	\$5,557,536
Public Safety - Fire	\$579,090	-	-	-	-	-	-	-	-	-	-	\$579,090
Interfund Transfers	\$1,500	-	-	-	-	-	-	-	-	-	-	\$1,500
Total Expenditures	\$9,094,817	-	\$1,007,100	\$556,760	\$1,840	-	\$470,000	\$141,300	\$2,158,962	-	\$62,760	\$13,493,539
Net Activity For Year	-	\$4,080	(\$1,004,700)	\$179,240	\$1,200	\$600	(\$112,039)	\$5,708	(\$211,662)	\$720	-	(\$1,136,853)
Projected Cash Balance at December 31, 2021	\$5,800,000	\$1,872,080	\$200,000	\$4,879,240	\$12,700	\$245,600	\$532,961	\$130,708	\$3,288,338	\$333,720	\$130,000	\$17,425,347

	Governmental Funds for General Appropriation			Governn	nental Funds fo	or Restricted F	Purposes	Proprie				
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Proposed Capital Expenditures Detail by Dept.:												
General Government												
Twp Bldg. Windows/Porch Repair/Veh. Replace.	-	-	\$125,000	-	-	-	-	-	-	-	-	\$125,000
Public Works												-
Storm Water (Sunset/Chetwynd/Spring/Jacqueline)		-	\$525,000	-	-			-	-	-	-	\$525,000
Public Works Facility work/Bridges	-	-	\$15,000	-	-	-	-	-	-	-	-	\$15,000
, ,		-		-	-	-		-	-	-	-	-
Front End Loader (yr. 2 of 5)							\$19,000					\$19,000
Vehicle Replacement	-						\$90,000					\$90,000
2021 Resurfacing Program	-	-	\$100,000	-	-	-	\$250,000	-	-	-	-	\$350,000
Culture & Recreation												-
Okehocking Parking/Fencing	-	-	\$40,000	-	-	-	-	-	-	-	-	\$40,000
Public Safety - Police												-
Vehicle Replacement	-	-	\$97,100	-	-	-	-	-	-	-	-	\$97,100
Police Equipment	-		\$85,000	-	-	-		-	-	-	-	\$85,000
Police Building IT	-	-	\$20,000	-	-	1	-	-	-	-	-	\$20,000
Total Capital Expenditures	-	-	\$1,007,100	-	-	-	\$359,000	-	-	-	-	\$1,366,100

	Governmental Funds for General Appropriation			Governn	nental Funds fo	or Restricted	Purposes	Proprie				
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Proposed Expenditures by Dept. and Category:												
General Government:												
Wages and Salaries	\$726,264	-	-	-	-	-	-	-	\$61,976	-	-	\$788,240
Employee Benefits	\$347,397	-	-	-	-	-	-	-	\$13,623	-	-	\$361,020
Materials & Services	\$532,850	-	-	\$1,000	\$1,500	-	-	\$4,000	\$104,000	-	-	\$643,350
Utilities	\$36,000	-	-	-	\$340	-	-	-	-	-	-	\$36,340
Vehicle Repairs & Fuel	\$5,100	-	-	-	-	-	-	-	-	-	-	\$5,100
Insurance	\$67,710	-	-	-	-	-	-	-	\$18,500	-	-	\$86,210
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	\$125,000	-	-	-	-	-	-	-	-	\$125,000
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total General Government	\$1,715,321	-	\$125,000	\$1,000	\$1,840	-	-	\$4,000	\$198,099	-	-	\$2,045,260
Sanitary Sewer Operations:												
Salary and Wages	-	-	_	_	-	_	_	_	\$183,007	_	_	\$183,007
Employee Benefits	-	-	_	_	_	_	_	_	\$98,352	-	_	\$98,352
Materials & Services	-	-	-	_	_	_	_	\$117,550	\$1,226,766	_	\$62,760	\$1,407,076
Utilities	-	-	-	_	-	-	_	\$19,750	\$57,750	-	-	\$77,500
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	\$1,000	-	-	\$1,000
Insurance	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	-	-	-	-	-	\$393,988	-	-	\$393,988
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total Sanitary Sewer Operations	-	-	-	-	-	-	-	\$137,300	\$1,960,863	-	\$62,760	\$2,160,923
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	Governmental Funds for General Appropriation			Governn	nental Funds fo	or Restricted I	Purposes	Proprietary Funds for Restricted Purposes				
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Public Works:												,
Salary and Wages	\$470,593	-	-	-	-	-	-	-	-	-	-	\$470,593
Employee Benefits	\$257,264	-	-	-	-	-	-	-	-	-	-	\$257,264
Materials & Services	\$186,200	-	-	-	-	-	\$80,000	-	-	-	-	\$266,200
Utilities	\$16,000	-	-	-	-	-	\$31,000	-	-	-	-	\$47,000
Vehicle Repairs & Fuel	\$68,000	-	-	-	-	-	-	-	-	-	-	\$68,000
Insurance	\$52,000	-	-	-	-	-	-	-	-	-	-	\$52,000
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	\$640,000	-	-	-	\$359,000	-	-	-	-	\$999,000
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total Public Works	\$1,050,057	-	\$640,000	-	-	-	\$470,000	-	-	-		\$2,160,057
Culture & Recreation:												
Salary and Wages	\$95,451	-	-		-	-	-	-	-	-	-	\$95,451
Employee Benefits	\$41,808	-	-		-	-	-	-	-	-	-	\$41,808
Materials & Services	\$249,154	-	-	-	-	-	-	-	-	-	-	\$249,154
Utilities	\$7,000	-	-	-	-	-	-	-	-	-	-	\$7,000
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	\$555,760	-	-	-	-	-	-	-	\$555,760
Capital Expenditures	-	-	\$40,000	-	-	-	-	-	-	-	-	\$40,000
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total Culture & Recreation	\$393,413	-	\$40,000	\$555,760	-	-	-	-	-	-	-	\$989,173

	Governmental Funds for General Appropriation			Governn	nental Funds fo	or Restricted	Purposes	Proprie	etary Funds for	Restricted Pu	rposes	
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	Total
Public Safety - Police:												
Salary and Wages	\$2,823,767	-	-	-	-	-	-	-	-	-	-	\$2,823,767
Employee Benefits	\$1,832,533	-	-	-	-	-	-	-	-	-	-	\$1,832,533
Materials & Services	\$293,000	-	-	-	-	-	-	-	-	-	-	\$293,000
Utilities	\$49,000	-	-	-	-	-	-	-	-	-	-	\$49,000
Vehicle Repairs & Fuel	\$57,000	-	-	-	-	-	-	-	-	-	-	\$57,000
Insurance	\$213,000	-	-	-	-	-	-	-	-	-	-	\$213,000
Debt Service	\$87,136	-	-	-	-	-	-	-	-	-	-	\$87,136
Capital Expenditures	-	-	\$202,100	-	-	-	-	-	-	-	-	\$202,100
Interfund Transfers	-	-	_	-	-	-	-	-	-	-	-	-
Total Public Safety - Police	\$5,355,436	-	\$202,100	-		-	-	-	-	-	-	\$5,557,536
·												, , ,
Public Safety - Fire:												
Salary and Wages	-	-	-	-	-	-	-	-	-	-	-	-
Employee Benefits	\$125,000	-	-	-	-	-	-	-	-	-	-	\$125,000
Materials & Services	\$388,590	-	-	-	-	-	-	-	-	-	-	\$388,590
Utilities	\$50,000	-	-	-	-	-	-	-	-	-	-	\$50,000
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	\$15,500	-	-	-	-	-	-	-	-	-	-	\$15,500
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-
Total Public Safety Fire	\$579,090	-	-	-	-	-	-		-	-	•	\$579,090
Interfund Transfers	\$1,500	-		_	_		_	_	_	_		\$1,500
Total Interfund Transfers	\$1,500	_	-			-	_	l -	_	_	_	\$1,500
Total monard francisco	ψ1,500	_			<u> </u>					_		Ψ1,500

Willistown Township 2021 Operating and Capital Budget Proposal All Funds Available for Appropriation

		Governmental Funds for General Appropriation			nental Funds fo	or Restricted	Purposes	Proprietary Funds for Restricted Purpose				
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund		Low Pressure Sewer Fund	Total
Total Expenditures by Category												
Salary and Wages	\$4,116,075	-	-	-	-	-	-	-	\$244,983	-	-	\$4,361,058
Employee Benefits	\$2,604,002	-	-	-	-	-	-	-	\$111,975	-	-	\$2,715,977
Materials & Services	\$1,649,794	-	-	\$1,000	\$1,500	-	\$80,000	\$121,550	\$1,330,766	-	\$62,760	\$3,247,370
Utilities	\$158,000	-	-	-	\$340	-	\$31,000	\$19,750	\$57,750	-	-	\$266,840
Vehicle Repairs & Fuel	\$130,100	-	-	-	-	-	-	-	\$1,000	-	-	\$131,100
Insurance	\$348,210	-	-	-	-	-	-	-	\$18,500	-	-	\$366,710
Debt Service	\$87,136	-	-	\$555,760	-	-	-	-	\$393,988	-	-	\$1,036,884
Capital Expenditures	-	-	\$1,007,100	-	-	-	\$359,000	-	-	-	-	\$1,366,100
Interfund Transfers	\$1,500	-	-	-	-	-	-	-	-	-	-	\$1,500
Total Expenditures	\$9,094,817	-	\$1,007,100	\$556,760	\$1,840	-	\$470,000	\$141,300	\$2,158,962	-	\$62,760	\$13,493,539
	-	-	-	-	-	-	-	-	-	-	-	-

Fund	General Ledger Account	2021 Budget
GENERAL FUND	01-301-100. R E TAX-CURRENT YRS LEVY	(355,000)
	01-301-200. RE TAXESPRIOR YEAR	(3,000)
	01-301-500. REAL ESTATE TAXESLIENED	(3,000)
	01-301-600. REAL ESTATE TAXESINTERIM	(1,000)
	01-310-100. REAL ESTATE TRANSFER TAX	(660,000)
	01-310-200. EARNED INCOME - 7/8 OF 1%	(6,410,000)
	01-310-500. LOCAL SERVICES TX	(275,000)
	01-321-800. CABLE TELEVISION FRANCHISE	(300,000)
	01-331-110. VEHICLE CODE VIOLATIONS	(4,000)
	01-331-120. VIOLATIONS OF ORD.,STATUTES	(15,000)
	01-331-130. FALSE ALARM VIOLATIONS	(2,200)
	01-341-000. INTEREST EARNINGS	(20,000)
	01-342-200. RENTAL OF OKE HOUSE	(2,500)
	01-354-070. PARK & RECREATION SUMMER PR	(8,000)
	01-354-071. PARK RENTAL	(7,000)
	01-355-010. PROPERTYTAX-PUBLIC UTILITY	(7,950)
	01-355-080. ALCOHOLIC BEVERAGE TAX	(1,050)
	01-355-130. FOREIGN FIRE INSURANCE	(125,000)
	01-355-160. REFUND AD HOC POSTRETIREMEN	(450)
	01-355-165. PENSION - ACT 205	(200,000)
	01-356-000. PAYMENT IN LIEU OF TAXES	(1,564)
	01-361-300. S/D & L/D FEES	(5,000)
	01-361-340. COND.USE & ZONING HEARINGS	(12,000)
	01-361-350. SOIL & EROSION	(34,000)
	01-361-560. SALE OF TRICENTENNIAL BOOK	(344)
	01-362-110. SALE - ACCIDENT REPORTS	(1,200)
	01-362-120. ALARM INSTALL/APD LICENSE	(4,000)
	01-362-130. FEE - FINGER PRINTING	(600)
	01-362-150. SOLICITORS LICENSE	(700)
	01-362-160. PUBLIC EXPOSITION PERMITS	(600)
	01-362-410. BUILDING PERMITS	(420,000)
	01-362-412. ZONING PERMITS	(23,000)
	01-362-413. DUM PSTER PERMIT	(200)
	01-362-450. USE AND OCCUPANCYPERMITS	(100)
	01-362-490. BUILDERS REGISTRATION	(3,119)
	01-363-510. SNOW REMOVAL-PENNDOT	(25,000)
	01-380-156. HOSPITALIZATION	(20,000)
	01-382-001. REFUND- HAZARDOUS WASTE	(2,000)
	01-382-021. RESTITUTION	(18,240)
	01-382-030. RECYCLING	(15,000)
	01-389-000. P-CARD REBATE	(1,000)
	01-392-091. TRANSFER FROM VANGUARD	(107,000)
	Total Rev enue	(9,094,817)

Fund	General Ledger Account	2021 Budget	
	01-400-318. CODIFICATION	5,000	
	01-400-340. SUBSCRIPTIONS	300	
	TOTAL GOVERNING BODY	5,300	*
	01-401-003. 457 CONTRIBUTION	16,668	
	01-401-121. WAGES	416,680	
	01-401-154. RETIREE HEALTHCARE	12,000	
	01-401-156. HOSPITALIZATION	88,359	
	01-401-158. LIFE/DISABILITYINSURANCE	6,000	
	01-401-159. REIMBURSEMENT HEALTH	5,000	
	01-401-160. MEDICARE	6,041	
	01-401-161. SOCIAL SECURITY	25,834	
	01-401-162. U/E COMPENSATION ADM	304	
	01-401-197. 6% MUN. PENSION CONTRIBUTION	25,001	
	01-401-200. MISCELLANEOUS BENEFITS	20,000	
	01-401-210. OFFICE SUPPLIES	12,000	
	01-401-212. POSTA GE	4,000	
	01-401-230. UTILITIES	11,000	
	01-401-231. GAS/MILEAGE	4,000	
	01-401-240. GENERAL EXPENSE	10,000	
	01-401-311. ACCOUNTING & AUDITING	37,000	
	01-401-312. CONSULTANT	17,000	
	01-401-313. ENGINEERING	30,000	
	01-401-314. LEGAL SERVICES	25,000	
	01-401-321. TELEPHONE MONTHLYCHARGES	25,000	
	01-401-340. SUBSCRIPTIONS	1,000	
	01-401-341. ADVERTISING	5,000	
	01-401-343. TOWNSHIP NEWSLETTER	16,800	
	01-401-352. BUSINESS INSURANCE	67,710	
	01-401-384. RENTL-COPIER, SCALE, METER	4,200	
	01-401-420. DUES-CONFERENCES-TRAINING	28,100	
	01-401-452. BUILDING CLEANING	12,000	
	01-401-455. BLD. & GROUNDS MAINT	33,000	
	TOTAL EXECUTIVE	964,697	*
	01-403-119. TAX COLLECTION	9,000	
	TOTAL TAX COLLECTION	9,000	*
	01-407-243. IT - COM PUTERS	6,000	
	01-407-311. ACCOUNTING AND AUDITING	27,000	
	01-407-312. CONSULTANT	30,000	
	01-407-340. SUBSCRIPTIONS	5,500	
	01-407-384. EQUIPMENT RENTAL	1,000	
	TOTAL INFORMATION TECH & NETWORKING	69,500	*

Fund	General Ledger Account	2021 Budget	
	01-410-003. 457 MATCH	106,500	
	01-410-004. PHYSICALS	1,000	
	01-410-120. WAGES - ADMINISTRATION	460,365	
	01-410-123. WAGES - CRASH FOLLOW UP	2,000	
	01-410-124. WAGES - PUBLIC RELATIONS(DARE	10,000	
	01-410-125. WA GES - M EETINGS	10,000	
	01-410-126. WAGES - SCHOOL	7,000	
	01-410-127. WAGES - SCHOOL - ACT 180	35,000	
	01-410-128. WAGES - SHIFT COVERAGE	35,000	
	01-410-130. WAGESOFFICERS	1,935,661	
	01-410-131. LONGEVITY	95,105	
	01-410-132. WAGES HOLIDAY	40,636	
	01-410-133. WAESSCHOOL - OVERTIME	1,000	
	01-410-134. WAGES COURT	12,000	
	01-410-135. WAGESCRIMINAL OVERTIME	17,000	
	01-410-136. WAGESSICK COVERAGE	40,000	
	01-410-137. WAGESTRAFFIC	5,000	
	01-410-138. WAGESUNUSED VACATION	55,000	
	01-410-145. COMMUNITYRELATIONS	10,000	
	01-410-146. WAGES - OTHER OVERTIME	15,000	
	01-410-149. EMERGENCYRESPONSE TEAM	30,000	
	01-410-150. WAGES - OIC	8,000	
	01-410-154. RETIREE HEALTHCARE	95,000	
	01-410-155. HEALTH INSURANCE INCENTIVE	8,000	
***************************************	01-410-156. HOSPITALIZATION	516,015	
	01-410-158. LIFE/DISABILITYINSURANCE	30,000	****
	01-410-159. PRESCRIPTION PROGRAM	10,000	
	01-410-160. MEDICARE	42,154	
	01-410-161. SOCIAL SECURITY	9,682	
	01-410-162. U/E COM PENSATION	2,000	••••
	01-410-197. MUNI PENSION 6%	7,000	
	01-410-210. OFFICE SUPPLIES	13,000	••••
	01-410-214. HIRING	10,000	
	01-410-230. UTILITIES	24,000	
	01-410-231. GASOLINE - POLICE CARS	32,000	
	01-410-237. EMERGENCYRESP. TEAM EXPENS	10,000	••••
	01-410-238. CLOTHING AND UNIFORMS	30,000	
	01-410-239. AMMUNITION AND TARGETS	21,000	••••
	01-410-240. GENERAL EXPENSES	5,000	•••••
	01-410-242. PROTECTION PERSONS/PROPERT	20,000	
	01-410-243. IT - Computers	10,000	
	01-410-270. TRAFFIC SAFETY	10,000	
	01-410-301. S.P.C.A. SERVICES	5,000	

Fund	General Ledger Account	2021 Budget	
	01-410-312. CONSULTANT	45,000	ļ
	01-410-314. LEGAL SERVICES	20,000	
	01-410-317. EXPENSE ACCOUNT	5,000	
	01-410-320. COMMUNICATION	15,000	
	01-410-321. TELEPHONE MONTHLYCHARGES	25,000	8 8 8
	01-410-329. LIVESCAN	8,000	
	01-410-340. SUBSCRIPTIONS	6,000	
	01-410-352. BUSINESS INSURANCE	213,000	
	01-410-374. REPAIRS-CARS/EQUIP-VENDOR	25,000	
	01-410-384. RENTALS - COPIER, CAMERA	6,000	
	01-410-420. DUES-CONFERENCES-TRAINING	25,000	
	01-410-421. HIGHER EDUCATION	40,000	
	01-410-452. BUILDING CLEANING	24,000	
	01-410-455. BUILDING MAINTENANCE	35,000	ļ
	01-470-101. BOND DEBT REDUCTION - POLICE	87,136	.
	TOTAL POLICE	4,420,254	ļ
	01-492-091. POLICE RETIREMENT HOSP.	132,023	
	01-492-600. TRANSFER - POLICE PENSION	803,159	
	TOTAL OPEB & PENSION	935,182	
	01-411-163. FIREMENS RELIEF ASSOC.	125,000	
	01-411-312. CONSULTANT	25,000	
	01-411-352. LIAB.(CASUALTY)INSVOL FIRE	15,500	
	01-411-366. WATER - FIRE HYDRANTS	50,000	
•••••	01-411-540. VOLUNTEER FIRE	363,590	ļ
	TOTAL FIRE	579,090	
	01-413-003. 457 M A T C H	7,115	ļ
	01-413-121. WAGES	177,877	
	01-413-156. HOSPITALIZATION	59,445	
	01-413-158. LIFE/DISABILITYINSURANCE	2,000	
	01-413-159. PRESCRIPTION REIMBURSEMENT	5,500	
	01-413-160. MEDICARE	2,579	
	01-413-161. SOCIAL SECURITY	11,029	
	01-413-162. U/E COM PENSATION	240	
	01-413-197. MUNI PENSION 6%	10,673	
	01-413-232. Vehicle Expenses	600	ļ
	01-413-240. GENERAL EXPENSES	1,000	
	01-413-260. SMALL TOOLS & MINOR EQUIP.	1,000	
	01-413-313. ENGINEERING	30,000	ļ
	01-413-340. SUBSCRIPTIONS	1,000	
	01-413-411. STATE FEE	4,000	ļ
	01-413-420. DUES-CONFERENCES-TRAINING	4,000	<u> </u>
	TOTAL CODE ENFORECEMENT	318,058	*

Fund	General Ledger Account	2021 Budget	·
	01-414-003. 457 M A TCH	4,494	
	01-414-120. WAGES	131,707	<u>.</u>
	01-414-156. HOSPITALIZATION	19,238	
	01-414-158. LIFE/DISABILITYINSURANCE	1,400	<u></u>
	01-414-159. PRESCRIPTION REIMBURSEMENT	1,500	
	01-414-160. MEDICARE	1,910	,
	01-414-161. SOCIAL SECURITY	8,166	·
	01-414-162. U/E COMPENSATION	160	
	01-414-197. MUNI PENSION 6%	6,741	
	01-414-240. GENERAL EXPENSES	500	
	01-414-251. REPAIRS - Vehicle - ZONING	500	
	01-414-305. HISTORIC PRESERVATIONS	500	
	01-414-306. COMPREH. PLAN REVIEW	10,000	
	01-414-312. CONSULTANT	15,000	
	01-414-313. ENGINEERING & ARCHITECT	55,000	
	01-414-314. LEGAL SERVICES	40,000	
	01-414-316. COURT REPORTER	5,000	·
	01-414-317. ZONING HEARING & COND. USE	1,200	
	01-414-340. SUBSCRIPTIONS	500	
	01-414-341. ADVERTISING	5,250	
	01-414-420. DUES-CONFERENCES-TRAINING	3,500	
	TOTAL PLANNING & ZONING	312,266	*
	01-415-240. General Expenses	5,000	
	TOTALEMERGENCYMANAGEMENT	5,000	*
	01-426-341. RECYCLING CHARGES	31,500	
	TOTAL RECYCLING	31,500	*

Fund	General Ledger Account	2021 Budget
	01-430-003. 457 MATCH	18,823
	01-430-120. WAGESPUB. WKS DIR.	419,240
	01-430-156. HOSPITALIZATION	163,682
	01-430-158. LIFE/DISABILITYINSURANCE	6,000
	01-430-159. PRESCRIPTION REIMBURSEMENT	4,000
	01-430-160. MEDICARE	6,823
	01-430-161. SOCIAL SECURITY	29,178
	01-430-162. U/E COMPENSATION	522
	01-430-180. OVERTIME	51,353
	01-430-197. MUNI PENSION 6%	28,236
	01-430-220. CLOTHING & SHOES & MEDICAL	12,000
	01-430-229. FOOD	500
	01-430-230. HEATING FUEL	3,500
	01-430-231. GASOLINE	6,000
	01-430-240. GENERAL EXPENSES	7,000
	01-430-250. REPAIRS & MAINTENANCECAR 5	1,500
	01-430-260. SMALL TOOLS & MINOR EQUIP.	8,500
	01-430-352. BUSINESS INSURANCE	52,000
	01-430-361. ELECTRIC SERVICE	6,500
	01-430-368. UNDERGROUND TANKS	4,500
	01-430-420. TRAINING-DUES-CONFERENCES	2,000
	01-430-454. GROUND MAINTENANCE	3,500
	01-430-455. BUILDING MAINTENANCE	5,000
	01-432-229. FOOD	1,200
	01-432-250. REPAIR AND MAINT. TRUCKS	17,500
	01-432-450. REPAIRS/MAINT CONTRACT	4,000
	01-433-220. OPERATING SUPPLIES	17,500
	01-433-372. TRAFFIC SIGNAL	6,000
	01-433-450. REPAIRS/MAINT CONTRACT	8,000
	01-437-250. SUPPLIES - TWP VEHICLES	23,000
	01-437-374. REPAIRS - VENDOR	10,000
	01-438-231. FUEL - TRUCKS	20,000
	01-438-245. ASPHALT,OIL, AGGREGATES	22,000
	01-438-247. STORM WATER INLETS,LIDS,PIPE	17,500
	01-438-313. ENGINEERING SERVICES	8,000
	01-438-384. RENT OF MACHINERY& EQUIP	7,500
	01-438-450. REPAIRS/MAINT - CONTRACT	25,000
	01-438-452. TREE REM OVAL	22,500
	TOTAL PUBLIC WORKS	1,050,057

Fund	General Ledger Account	2021 Budget
	01-454-000. EVENTS-OUTSIDE VENDORS	14,500
	01-454-003. 457 M atch	3,818
	01-454-148. WAGES	95,451
	01-454-156. HOSPITALIZATION	22,381
	01-454-158. LIFE/DISABILITY	1,000
	01-454-159. PRESCRIPTION REIMBURSEMENT	1,500
	01-454-160. MEDICARE	1,384
	01-454-161. FICA	5,918
	01-454-162. PAUC	80
	01-454-197. MUNI PENSION 6%	5,727
	01-454-210. OFFICE SUPPLIES	450
	01-454-220. SUPPLIES	8,500
	01-454-230. UTILITIES	3,200
	01-454-247. SIGNAGE	8,500
	01-454-312. CONSULTANT	5,000
	01-454-321. COMMUNICATIONS	3,500
	01-454-340. ADV.,PRINT,TRAINING,DUES,SUB	8,500
	01-454-361. ELECTRIC SERVICE	3,500
	01-454-366. PUBLIC UTILITY SERVICE - WATER	300
	01-454-374. RPRS. & MAINT. SERV. & CONT	4,500
	01-454-420. DUES-CONFERENCES-TRAINING	2,600
	01-454-454. GROUNDS MAINT.	94,000
	01-454-455. BUILDING MAINTENANCE	9,500
	01-456-520. MALVERN & PAOLI LIBRARY	89,604
	TOTAL CULTURE & RECREATION	393,413
	01-492-017. TRANSFER TO BARTRAMS BRIDGE	1,500
	TOTAL INTERFUND TRANSFERS	1,500
	TOTAL EXPENDITURES	9,094,817
	TOTAL GENERAL FUND	-
		
* Department within	General Gov ernment	

Fund	General Ledger Account	2021 Budget
OPEN SPACE	04-310-201. OPEN SPACE TAX 1/8 OF 1%	(725,000)
	04-341-000. INTEREST	(11,000)
	TOTAL REVENUE	(736,000)
	04-400-532. BOND ADM IN EXPENSE 3	1,000
	TOTAL GENERAL GOVERNMENT	1,000
	04-470-103. BOND DEBT REDUCTION 3	360,000
	04-472-103. BOND DEBTINTEREST 3	195,760
	TOTAL CULTURE & RECREATION	555,760
	TOTAL EXPENSES	556,760
	TOTAL OPEN SPACE FUND	(179,240)
PENNS PRESERVE	07-341-000. INTEREST	(400)
	07-364-120. SEWER USE CHARGE	(146,608)
	TOTAL REVENUE	(147,008)
	07-400-220. OPERATING SUPPLIES	2,000
	07-400-240. GENERAL EXPENSES	2,000
	TOTAL GENERAL GOVERNMENT	4,000
	07-429-220. OPERATING SUPPLIES	4,000
	07-429-240. GENERAL EXPENSES	850
	07-429-260. SMALL TOOLS & MINOR EQUIP.	1,000
	07-429-313. ENGINEERING SERVICES	19,200
	07-429-321. TELEPHONE CHARGES/ALARM	1,750
	07-429-361. ELECTRICITY	17,000
	07-429-366. WATER	1,000
	07-429-370. REPAIRS & MAINTENANCE	15,000
	07-429-454. GROUNDS MAINTENANCE	10,000
	07-429-456. PLANT OPERATOR	60,000
	07-429-457. LABORATORY/WELLS	7,500
	TOTAL SANITARY SEWER OPERATIONS	137,300
	TOTAL EXPENSES	141,300
	TOTAL PENNS PRESERVE	(5,708)

Fund	General Ledger Account	2021 Budget
VALLEYFORGE SEV	WER FUI 08-341-000. INTEREST EARNINGS	(7,800)
	08-364-120. SEWER USE CHARGE	(1,933,000)
	08-364-900. FEE - SEWER CERTIFICATION	(6,500)
	TOTAL REVENUE	(1,947,300)
	08-400-003. DEFERRED COMPENSATION	1,247
	08-400-140. WAGES-SEWER/CLERICAL	61,976
	08-400-156. HOSPITALIZATION	4,569
	08-400-158. LIFE INSURANCE	1,100
	08-400-160. MEDICARE	898
	08-400-161. FICA (SOCIAL SECURITY)	3,842
	08-400-162. U/E COMPENSATION ADMIN	96
	08-400-197. MUNI PENSION	1,871
	08-400-210. OFFICE SUPPLIES	4,000
	08-400-240. GENERAL EXPENSES	25,000
	08-400-314. LEGAL SERVICES	75,000
	08-400-352. INSURANCES	18,500
	TOTAL GENERAL GOVERNMENT	198,099
	08-400-386. VALLEYFORGE SEWER AUTH.	675,836
	08-400-387. TREDYFFRIN TRUNK LINE	427,480
	08-400-388. E. GOSHEN MUNICIPAL AUTH.	12,000
	08-400-532. BOND ADMIN,EXPUSBANK	539
	08-429-003. 457 MATCH	7,320
•••••	08-429-140. WAGES-MAINTENANCE CREW	163,035
	08-429-156. HOSPITALIZATION	63,653
	08-429-158. LIFE INSURANCE	2,200
	08-429-160. MEDICARE	2,652
	08-429-161. SOCIAL SECURITY	11,348
	08-429-162. U/E COM PENSATION	198
	08-429-180. OVERTIME	19,972
	08-429-197. MUNI PENSION 6%	10,981
	08-429-220. OPERATING SUPPLIES	11,000
	08-429-230. FUEL - EMERG. GENERATORS	1,500
	08-429-240. GENERAL EXPENSES	7,500
	08-429-250. REPAIRS & MAINT TRUCK 12	1,000
	08-429-260. SMALL TOOLS / MINOR EQUIP.	2,500
	08-429-300. PENNSYLVANIA ONE CALL	2,500 1,250
		:
	08-429-313. ENGINEERING SERVICES	35,000
	08-429-321. TELEPHONE CHARGES/ALARM	4,500
	08-429-361. ELECTRICITY	50,000
	08-429-366. WATER	1,750
	08-429-370. REPAIRS & MAINTENANCE	50,000

Fund	General Ledger Account	2021 Budget
	08-429-454. GROUNDS MAINTENANCE	3,200
	08-429-461. TRAINING	1,000
	08-472-103. BOND INTERST - USBANK	393,449
	TOTAL SANITARY SEWER OPERATIONS	1,960,863
	TOTAL EXPENSES	2,158,962
	TOTAL VALLEYFORGE SEWER FUND	211,662

Fund	General Ledger Account	2021 Budget
LOW PRESSURE FUND	11-341-000. INTEREST EARNINGS	(360)
	11-364-121. LOW PRESSURE MAINTENANCE F	(62,400)
	TOTAL REVENUE	(62,760)
	11-429-321. TELEPHONE CHARGES/ALARM	600
	11-429-450. REPAIRS/MAINT CONTRACTS	62,160
	TOTAL SANITARY SEWER OPERATIONS	62,760
	TOTAL EXPENSES	62,760
	TOTAL LOW PRESSURE FUND	-
BARTRAM BRIDGE FUND	17-341-000. INTEREST EARNINGS	(40)
	17-380-030. DONATIONS -NEWTOWN TWP.	(1,500)
	17-392-001. TRANSFER FROM GENERAL FUND	(1,500)
	TOTAL REVENUE	(3,040)
	17-400-316. MISCELLANEOUS SERVICES	1,500
	17-454-361. ELECTRIC	340
	TOTAL GENERAL GOVERNMENT	1,840
	TOTAL EXPENSES	1,840
	TOTAL BARTRAM BRIDGE FUND	(1,200)
CAPITAL RESERVE	30-341-000. INTEREST EARNINGS	(2,400)
	TOTAL REVENUE	(2,400)
	30-401-212. ADMIN. BLDG	79,000
	30-401-610. GENERAL CONSTRUCTION	46,000
	TOTAL GENERAL GOVERNMENT	125,000
	30-410-341. PD CAPITAL - VEHICLES	97,100
	30-410-605. PD CAPITAL - GENERAL	85,000
	30-410-606. CAPITAL - IT	20,000
	TOTAL PUBLIC SAFETY- POLICE	202,100
	30-430-840. PW BUILDING	640,000
	TOTAL PUBLIC WORKS	640,000
	30-454-840. PARKS	40,000
	TOTAL CULTURE & RECREATION	40,000
	TOTAL EXPENSES	1,007,100
	TOTAL CAPITAL RESERVE	1,004,700

Fund	General Ledger Account	2021 Budget
STATE LIQUID FUELS	35-341-000. INTEREST EARNINGS	(1,200)
	35-355-050. STATE MOTOR LICENSE GRANT	(336,401)
	35-355-150. STATE TURNBACK FUNDS	(20,360)
	TOTAL REVENUE	(357,961)
	35-432-220. SALT	80,000
	35-433-361. PUBLIC UTILITYTRAFFIC LIGHTS	8,000
	35-434-361. PUBLIC UTILITY STREET LIGHTS	23,000
	35-438-450. REPAIRS/MAINT - CONTRACT	250,000
	35-438-740. CAPITAL PURCHASE NEW	109,000
	TOTAL PUBLIC WORKS	470,000
	TOTAL EXPENSES	470,000
	TOTAL STATE LIQUID FUELS	112,039

8. FUTURE CAPITAL PROJECTS

There are no scheduled capital improvement projects at this time. Following is a list of future potential projects that have not been formalized by the Township.



FUTURE SANITARY SEWER REPAIRS WILLISTOWN TOWNSHIP SEGMENT LENGTH FT. ISSUE RECOMMENDED REPAIR LOCATION				
MH 2-165 to MH 2-164	166	Old Terra Cotta Sags	RECOMMENDED REPAIR Replace/Reline	LOCATION
MH 2-164 to MH 2-163	60	Old Terra Cotta Sags		Fairview
MH 2-163 to MH 2-162	333	Old Terra Cotta Sags Old Terra Cotta Sags	Replace/Reline	Fairview
MH 2-163 to MH 2-161	127	PVC Deformed/Sinking	Replace/Reline	Fairview
MH 2-161 to MH 2-160	254	PVC Deformed/Sinking	Replace	Fairview
MH 2-161 to MH 2-160 MH 2-160 to MH 2-151	260	PVC Deformed/Sinking PVC Deformed/Sinking	Replace	Fairview
	55		Replace	Fairview
MH 2-151 to MH 2-078		Sinking	Replace	Paoli Pike
MH 2-078 to MH 2-166	340	PVC Deformed/Sinking	Replace	Paoli Pike
MH 2-166 to MH 2-182	337	PVC Deformed/Sinking	Replace	Paoli Pike
MH 3-020 to MH 3-019	271	Inflow/Fractures	Replace	Paoli Pike
MH 3-019 to MH 3-018	232	Inflow/Fractures	Replace	Paoli Pike
MH 3-009 to MH 3-008	90	I&I Gusher @ 75 Feet	Spot Repair/Reline	Paoli Pike ROW
MH 3-006 to MH 3-005	179	Camera Under Water Sags	Replace	Paoli Pike ROW
MH 3-005 to MH 3-004	265	I&I Runners 39' 105' & Sags	Replace	Paoli Pike ROW
MH 1-40 t0 MH 1-041	228	15" Cast Iron Corroded	Replace	Lancaster Pike
MH 3-092 to MH 3-091	109	ACP Deteriorated	Replace	Long Lane
MH 3-091 to MH 3-090	104	ACP Deteriorated	Replace	Long Lane
MH 3-090 to MH 3-089	161	ACP Deteriorated	Replace	Long Lane
MH 3-089 to MH 3-088	115	ACP Deteriorated	Replace	Long Lane
MH 2-007 to MH 2-006	78	I&I Runner	Reline Existing Pipe and Reline Manhole	Cobblestone
MH 2-008 to MH 2-006	105	I&I Runner	Reline Existing Pipe and Reline Manhole	Cobblestone
MH 2-027 to MH 2-159	337	Inflow at Fracture	Reline Existing Pipc	ROW Chetwynd
MH 2-128 to MH 2-072	186	I&I	Reline Existing Pipe	ROW Gable
MH 1-011 to MH 1-010	228	Lateral Defects	Spot Repair/Replace	N. Cedar Hollow
MH 1-010 to MH 1-009	322	I&I Runner	Spot Repair/Replace	N. Cedar Hollow
MH 1-009 to MH 1-008	341	Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-006 to MH 1-005		Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-005 to MH 1-004		Sags Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-004 to MH 1-003		Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MANHOLE REPAIRS	LENGTH FT.	ISSUE	RECOMMENDED REPAIR	LOCATION
MH 2-146	N/A	Inflow	Seal & Reline Manhole	So. Lloyd
MH 2-210	N/A	Structural	Structural Repairs Needed	Devon
MH 2-211	N/A	Structural	Structural Repairs Needed	Devon
MH 3-041	N/A	Reactivate	Put Force Main Back In Manhole	Grubb
MH 3-042 to MH 3-045	150	Eliminate 90 at MH-3-043	Add Additional Manholes (2)	Grubb/King
MH-3-048	N/A	To Low SSO Issue	Riase Cone	Pond
MH-2-002	N/A	To Low SSO Issue	Riase Cone	Devon Road Station #1
	- 1// 1	10 2011 000 13340	Mase colle	Devoit Road Station #1

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9. LIST OF ASSETS AND COSTS



WILLISTOWN TOWNSHIP WASTEWATER SYSTEM SUMMARY OF ANALYSIS OF ORIGINAL COST OF WASTEWATER SYSTEM AS OF JUNE 28, 2021

ACCOUNT	DESCRIPTION		ORIGINAL COST (\$)		
353.2	LAND AND LAND RIGHTS - COLLECTION	\$	216.00		
353.3	LAND AND LAND RIGHTS - PUMPING	\$	21,606.00		
353.4	LAND AND LAND RIGHTS - TREATMENT	\$	1,500,007.00		
354.3	STRUCTURES AND IMPROVEMENTS - PUMPING	\$	2,146,252.31		
354.4	STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT	\$	1,448,500.00		
355.3	POWER GENERATION - PUMPING	\$	344,586.01		
360.21	COLLECTION SEWERS - FORCE/PRESSURE MAINS	\$	6,823,585.73		
361.21	COLLECTION SEWERS - GRAVITY MAINS	\$	3,807,421.45		
361.22	COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES	\$	956,037.32		
361.23	COLLECTION SEWERS - GRAVITY - MANHOLES	\$	1,562,320.53		
363.20	SERVICES TO CUSTOMERS	\$	698,453.71		
364.3	FLOW MEASURING DEVICES	\$	23,240.21		
390.7	EQUIPMENT - GENERAL	\$	309,293.46		
	SYSTEM TOTAL	\$	19,641,519.75		

<u>ACCOUNT</u>	DESCRIPTION	<u>YEAR</u>	QUANTITY	UNIT COST	ORIGINAL COST
<u>353.2</u>	LAND AND LAND RIGHTS - COLLECTION				
	Fox Ridge Gravity Sewer Easements				
	(UPI: 54-2-62.30, 54-2-62.29, 54-2-62.28, 54-2-62.27)	2012			\$1.00
	Fox Ridge Gravity Sewer Easements				
	(UPI: 54-2-62, 54-2-62.18, 54-2-62.19)	2015			\$1.00
	2291 South Valley Rd (UPI: 54-4-8) Easement	2018			\$1.00
	Applebrook Meadows Gravity Sewer (UPI: 54-2-95.5) Easement	2018			\$1.00
	15 Long Ln (UPI: 54-3-33) Easement	2018			\$1.00
	2 McKinley Ave (UPI: 54-3-50) Easement	2018			\$1.00
	285 W Central Ave (UPI: 54-1K-1.7) Easement	2020			\$1.00
	209 Sewer Easements	Varies			\$209.00
	TOTAL LAND AND LAND RIGHTS - COLLECTION				\$216.00
<u>353.3</u>	LAND AND LAND RIGHTS - PUMPING				
	Pump Station #1 Property (UPI: 54-2-33.3A)	1975			\$8,601.00
	Pump Station #2 Property (UPI: 54-3-343.1)	1975			\$5,500.00
	Pump Station #3 Property (UPI: 54-3-212.1)	1975			\$7,500.00
	Booster Pump Station #1 Property (UPI: 54-3-315)	1978			\$1.00
	Penn's Preserve/PS #5 Easements				
	(UPI: 54-8-14, 54-8-14.2, 54-8-14.2A, 54-8-14.2B)	1999			\$1.00
	Booster Pump Station #2 Easement (UPI: 54-3-300.17)	2001			\$1.00
	Pump Station #4 Force Main Easements				
	(UPI: 54-2-95, 54-2-95.1, 54-2-95.2, 54-2-95.5, 54-2-115)	2006			\$1.00
	Dovecote Pump Station Easements				
	(UPI: 54-3-449, 54-3-450, 54-3-451, 54-3-452, 54-3-460, 54-3-461)	2018			\$1.00
	TOTAL LAND AND LAND RIGHTS - PUMPING				\$21,606.00
<u>353.4</u>	LAND AND LAND RIGHTS - TREATMENT				
<u> 333.4</u>	Penn's Preserve (UPIs: 54-8-14.1, 54-8-14.3, 54-8-14.4, 54-8-14.5)	2001			\$4.00
	Penn's Preserve (UPI: 54-8-14.2)	2001			\$1.00
	Penn's Preserve (UPIs: 54-8-14.2B, 54-8-2679)	2003			\$2.00
	Penn's Preserve (UPI: 54-8-14.2A)	2006			\$1,500,000.00
	TOTAL LAND AND LAND RIGHTS - TREATMENT	2000			\$1,500,007.00
254.2	CTRUCTURES AND IMADROVENACINES. BURARING				
<u>354.3</u>	STRUCTURES AND IMPROVEMENTS - PUMPING Dump Station #1 Initial Facility	1077			¢12E E77 60
	Pump Station #1 - Initial Facility	1977			\$135,577.68
	Pump Station #2 - Initial Facility	1977 1977			\$135,577.68
	Pump Station #5 - Initial Facility	1977			\$135,577.68
	Pump Station #5 - Initial Facility	1997			\$306,628.72
	Dovecote Pump Station - Initial Facility	1998			\$148,622.00

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	QUANTITY	UNIT COST	ORIGINAL COST
	Booster Pump Station #1 - Initial Facility	2001			\$30,426.04
	Booster Pump Station #2 - Initial Facility	2001			\$30,426.04
	Pump Station #4 - Initial Facility	2006			\$407,943.57
	Pump Station #5 - Building Improvements	2011			\$1,650.00
	Pump Station #3 - Pump Upgrades and Station Improvements	2014			\$659,984.76
	Pump Station #1 - Pump Upgrades	2015			\$34,406.50
	Pump Station #2 - Pump Upgrades	2015			\$43,611.62
	Pump Station #5 - Pump Upgrades	2019			\$75,820.00
	TOTAL STRUCTURES AND IMPROVEMENTS - PUMPING				\$2,146,252.31
<u>354.4</u>	STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT				
	Initial facility cost including pumps, building, treatment				
	structures, fencing, property, etc.	1998			\$1,448,500.00
	TOTAL STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT				\$1,448,500.00
<u>355.3</u>	POWER GENERATION - PUMPING				
	Pump Station #3 Generator	2010			\$344,586.01
	TOTAL POWER GENERATION - PUMPING				\$344,586.01
<u>360.21</u>	COLLECTION SEWERS - FORCE/PRESSURE MAINS				
	DIP - 4-inch	1977	820	\$25.12	\$20,601.17
	DIP - 8-inch	1977	1,555	\$48.77	\$75,837.35
	DIP - 14-inch	1977	6,264	\$61.00	\$382,124.04
	PVC - 1.5-inch	1993	921	\$54.00	\$49,729.40
	PVC - 2-inch	1993	20,614	\$54.51	\$1,123,751.60
	PVC - 2.5-inch	1993	1,832	\$55.03	\$100,821.01
	PVC - 2-inch	1996	1,874	\$58.81	\$110,204.32
	PVC - 2-inch	1997	892	\$60.96	\$54,375.96
	PVC - 1.5-inch	1998	3,400	\$54.20	\$184,292.58
	PVC - 2-inch	1998	11,595	\$61.94	\$718,231.40
	PVC - 2.5-inch	1998	1,281	\$62.53	\$80,104.90
	PVC - 3-inch	1998	3,743	\$63.12	\$236,269.76
	PVC - 4-inch	1998	5,406	\$61.07	\$330,119.01
	PVC - 6-inch	1998	3,169	\$65.34	\$207,068.80
	PVC - 4-inch	1999	1,839	\$69.02	\$126,935.14
	PVC - 2-inch	2001	755	\$66.37	\$50,108.75
	HDPE - 6-inch	2006	9,702	\$244.38	\$2,370,976.70
	HDPE - 4-inch	2009	2,475	\$243.25	\$602,033.85
	TOTAL COLLECTION SEWERS - FORCE/PRESSURE MAINS				\$6,823,585.73

ACCOUNT	<u>DESCRIPTION</u>	<u>YEAR</u>	QUANTITY	UNIT COST	ORIGINAL COST
<u>361.21</u>	COLLECTION SEWERS - GRAVITY MAINS				
	VP - 8-inch	1977	59,472	\$22.83	\$1,357,563.07
	CIP - 8-inch	1977	775	\$14.12	\$10,941.90
	ACP - 8-inch	1977	26,773	\$23.38	\$625,962.82
	VP - 10-inch	1977	1,453	\$27.26	\$39,603.80
	ACP - 10-inch	1977	4,659	\$21.89	\$101,970.53
	VP - 12-inch	1977	497	\$23.10	\$11,482.26
	ACP - 12-inch	1977	2,062	\$29.38	\$60,577.87
	VP - 15-inch	1977	360	\$24.13	\$8,686.78
	RCP - 15-inch	1977	1,679	\$24.83	\$41,697.28
	ACP - 15-inch	1977	1,498	\$43.92	\$65,786.92
	DIP - 16-inch	1977	166	\$46.72	\$7,755.47
	RCP - 18-inch	1977	3,933	\$29.26	\$115,095.22
	DIP - 18-inch	1977	105	\$29.26	\$3,072.72
	Unknown - 8-inch	1978	4,737	\$16.51	\$78,212.82
	ACP - 8-inch	1980	3,047	\$18.18	\$55,387.89
	PVC - 8-inch	1987	5,100	\$24.15	\$123,157.25
	PVC - 8-inch	1989	3,464	\$39.23	\$135,906.68
	PVC - 8-inch	1998	3,806	\$49.07	\$186,760.37
	DIP - 8-inch	1998	7,803	\$45.54	\$355,322.31
	PVC - 8-inch	2009	585	\$46.97	\$27,477.80
	PVC - 8-inch	2013	3,667	\$95.23	\$349,216.32
	PVC - 6-inch	2017	778	\$58.85	\$45,783.38
	TOTAL COLLECTION SEWERS - GRAVITY MAINS				\$3,807,421.45
<u>361.22</u>	COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES				
	Fox Ridge Sewer Upgrades	2009			\$71,101.25
	Long Lane Emergency Sewer Repair	2019			\$336,363.30
	McKinley Avenue Emergency Sewer Repair	2019			\$307,674.90
	Jacqueline Drive Emergency Sewer Repair	2020			\$39,259.87
	Marlin Drive & Eisenhower Drive Sewer Replacement	2020			\$201,638.00
	TOTAL COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES			•	\$956,037.32
<u>361.23</u>	COLLECTION SEWERS - GRAVITY - MANHOLES				
	Initial Installation - Original System	1977	519	\$1,642.78	\$852,602.51
	Initial Installation - Weatherstone	1978	34	\$1,770.32	\$60,191.03
	Initial Installation - Rustmont	1980	14	\$2,064.32	\$28,900.41
	Initial Installation - Brampton Chase	1987	28	\$2,809.82	\$78,674.85
	Initial Installation - Fox Ridge	1989	15	\$2,949.80	\$44,246.95
	Initial Installation - Pump Station 5	1998	6	\$3,775.33	\$22,651.99

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	QUANTITY	UNIT COST	ORIGINAL COST
	Initial Installation - Quaker Farms	1998	50	\$3,775.33	\$188,766.58
	Initial Installation - Dovecote	1998	21	\$3,775.33	\$79,281.97
	Initial Installation - Applebrook Meadows	2013	34	\$6,088.36	\$207,004.24
	TOTAL COLLECTION SEWERS - GRAVITY - MANHOLES			•	\$1,562,320.53
<u>363.20</u>	SERVICE TO CUSTOMERS				
	PVC - 4-inch	1977	19,860	\$14.12	\$280,395.10
	PVC - 4-inch	1978	1,755	\$15.21	\$26,701.88
	PVC - 4-inch	1980	1,215	\$17.74	\$21,555.81
	PVC - 4-inch	1987	420	\$24.15	\$10,142.36
	PVC - 4-inch	1989	390	\$25.29	\$9,864.65
	PVC - 4-inch	1993	1,995	\$28.56	\$56,967.34
	PVC - 4-inch	1996	225	\$30.80	\$6,930.49
	PVC - 4-inch	1997	45	\$31.93	\$1,436.91
	PVC - 4-inch	1998	3,195	\$32.45	\$103,666.37
	PVC - 4-inch	2001	2,130	\$34.76	\$74,049.07
	PVC - 4-inch	2013	2,040	\$52.33	\$106,743.74
	TOTAL SERVICE TO CUSTOMERS				\$698,453.71
<u>364.3</u>	FLOW MEASURING DEVICES				
	Cedar Hollow Flow Meter	1977			\$9,195.07
	Pheasant Run Flow Meter	1978			\$9,908.97
	Flow Meter	2007			\$2,380.00
	Counter	2008		_	\$1,756.17
	TOTAL FLOW MEASURING DEVICES				\$23,240.21
<u>390.7</u>	EQUIPMENT - GENERAL				
	ICOM3 Software	2015			\$36,843.75
	Video Pipe Inspection Trailer	2015			\$71,730.00
	Jet Truck	2015			\$200,719.71
	TOTAL EQUIPMENT - GENERAL			·	\$309,293.46

APPENDICES

APPENDIX A

SYSTEM MAPPING

• A1 – Sanitary Sewer System Map

APPENDIX B

- Uniform System of Accounts Section 300
- PA ACT 12 of 2016



UNIFORM SYSTEM OF ACCOUNTS FOR CLASS A WASTEWATER UTILITIES

1996



NATIONAL ASSOCIATION OF REGULATORY UTILITY COMMISSIONERS

1101 Vermont Avenue NW Washington, D.C. 20005 USA

Tel: (202) 898-2200 Fax: (202) 898-2213 www.naruc.org

\$26.00

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		Intangible Plant	Collection Plant
351.	Organization	351.1	XXXXXXXXX
	Franchises	352.1	XXXXXXXXX
353.	Land and Land Rights	XXXXXXXXXX	353.2
	Structures and Improvements	XXXXXXXXXX	354.2
	Power Generation Equipment	XXXXXXXXX	355.2
	Collection Sewers - Force	XXXXXXXXX	360.2
361.	Collection Sewers - Gravity	XXXXXXXXX	361.2
362.	Special Collecting Structures	XXXXXXXXXX	362.2
	Services to Customers	XXXXXXXXX	363.2
	Flow Measuring Devices	XXXXXXXXX	364.2
	Flow Measuring Installations	XXXXXXXXX	365.2
	Reuse Services	XXXXXXXXXX	XXXXXXXXXX
367.	Reuse Meters and Meter		
	Installations	XXXXXXXXX	XXXXXXXXX
370.	Receiving Wells	XXXXXXXXX	XXXXXXXXX
371.	Pumping Equipment	XXXXXXXXXX	XXXXXXXXXX
374.	Reuse Distribution Reservoirs	XXXXXXXXXX	XXXXXXXXXX
375.	Reuse Transmission and		
	Distribution System	XXXXXXXXX	XXXXXXXXX
380.	Treatment and Disposal Equipment	XXXXXXXXXX	XXXXXXXXXX
	Plant Sewers	XXXXXXXXXX	XXXXXXXXXX
382.	Outfall Sewer Lines	XXXXXXXXX	XXXXXXXXXX
389.	Other Plant and Misc. Equipment	389.1	389.2
	Office Furniture and Equipment	XXXXXXXXXX	XXXXXXXXX
391.		XXXXXXXXXX	XXXXXXXXXX
392.	Stores Equipment	XXXXXXXXX	XXXXXXXXX
393.		XXXXXXXXX	XXXXXXXXX
394.	Laboratory Equipment	XXXXXXXXX	XXXXXXXXXX
	Power Operated Equipment	XXXXXXXXXX	XXXXXXXXXX
396.	Communication Equipment	XXXXXXXXX	XXXXXXXXXX
	Miscellaneous Equipment	XXXXXXXXX	XXXXXXXXXX
	Other Tangible Plant	XXXXXXXXXX	XXXXXXXXXX
220.	other rangible Flant	AAAAAAAAA	AAAAAAAAA

.3	.4 Treatment	.5 Reclaimed	.6 Reclaimed	<u>.7</u>
System	and	Water	Water	
Pumping	Disposal	Treatment	Distribution	General
Plant	Plant	Plant	Plant	Plant
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXX	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	352.6	XXXXXXXXX
353.3	353.4	353.5	353.6	353.7
354.3	354.4	354.5	354.6	354.7
355.3	355.4	355.5	355.6	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
XXXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	366.6	XXXXXXXXX
XXXXXXXXX	XXXXXXXXXX	XXXXXXXXX	367.6	XXXXXXXXXX
370.3	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
371.3	XXXXXXXXX	371.5	371.6	XXXXXXXXXX
XXXXXXXXX	XXXXXXXXX	374.5	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	375.6	XXXXXXXXX
XXXXXXXXX	380.4	380.5	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	381.4	381.5	XXXXXXXXX	XXXXXXXXX
XXXXXXXXX	382.4	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX
389.3	389.4	389.5	389.6	XXXXXXXXX
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	390.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	391.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	392.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	393.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	394.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	395.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX	XXXXXXXXX	396.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	397.7
XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	398.7

The wastewater utility plant accounts have been designed utilizing an account matrix. The matrix employs a list of object accounts which in effect act as control accounts. The object accounts are further segregated by the matrix into classifications by functions or subaccount. The instructions for segregating the object accounts to the function subaccount are contained in Accounting Instruction 32. Listed below are the object account descriptions.

351. Organization

This account shall include all fees paid to federal or state governments for the privilege of incorporation and expenditures incident to organizing the corporation, partnership or other enterprise and putting it into readiness to do business. A sample of items to be included in this account are listed below.

- Actual cost of obtaining certificates authorizing an enterprise to engage in the public utility business.
- Fees and expenses for incorporation.
- Fees and expenses for mergers or consolidations.
- 4. Office expenses incident to organizing the utility.
- 5. Stock and minute books and corporate seal.

Note A:--This account shall not include any discounts upon securities issued or assumed; nor shall it include any costs incident to negotiating loans, selling bonds or other evidences of debt, or expenses in connection with the authorization, issuance and sale of capital stock.

Note B:--Exclude from this account and include in the appropriate expense account the cost of preparing and filing papers in connection with the extension of the term of incorporation unless the first organization costs have been written off. Where charges are made to this account for expenses incurred in mergers, consolidations or reorganizations, amounts previously included herein or in similar accounts in the books of the companies concerned shall be excluded from this account.

352. Franchises

A. This account shall include amounts paid to the federal government, to a state or to a political subdivision thereof in consideration for franchises, consents or certificates, running in perpetuity or for a specified term of more than one year, together with necessary and reasonable expenses incident to procuring such franchises, consents or certificates of permission and approval, including expenses of organizing and merging separate corporations, where statutes require solely for the purpose of acquiring franchise.

- B. If a franchise or certificate is acquired by assignment, the charge to this account in respect thereof shall not exceed the amount paid therefor by the utility to the assignor, nor shall it exceed the amount paid by the original grantee, plus the expense of acquisition to such grantee. Any excess of the amount actually paid by the utility over the amount specified shall be charged to account 426 Miscellaneous Nonutility Expenses.
- C. When any franchise has expired, the book cost thereof shall be credited hereto and charged to account 426 Miscellaneous Nonutility Expenses, or to account 110.1 Accumulated Amortization of Utility Plant in Service, as appropriate.
- D. Records supporting this account shall be kept so as to show separately the book cost of each franchise.

Note: -- Annual or other periodic payments under franchises shall not be included herein but in the appropriate expense account.

353. Land and Land Rights

This account shall include the cost of land and land rights used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 24). A sample of items to be included in this account are listed below:

- Bulkheads buried, not requiring maintenance or replacement.
- Cost, first, of acquisition including mortgages and other liens assumed (but not subsequent interest thereon).
- 3. Condemnation proceedings, including court and counsel costs.
- 4. Consents and abutting damages, payment for.
- Conveyancers' and notaries' fees.
- Fees, commissions, and salaries to brokers, agents, and others in connection with the acquisition of the land or land rights.
- Leases, cost of voiding upon purchase to secure possession of land.
- 8. Removing, relocating, or reconstructing property of others, such as buildings, highways, railroads, bridges, cemeteries, churches, telephone and power lines, etc., in order to acquire quiet possession.
- 9. Retaining walls unless identified with structures.
- 10. Special assessments levied by public authorities for public improvements on the basis of benefits for new

roads, new bridges, new sewers, new curbing, new pavements, and other public improvements, but not taxes levied to provide for the maintenance of such improvements.

- Surveys in connection with the acquisition, but not amounts paid for topographical surveys and maps where such costs are attributable to structures or plant equipment erected or to be erected or installed on such land.
- 12. Taxes assumed, accrued to date of transfer of title.
- 13. Title, examining, clearing, insuring and registering in connection with the acquisition and defending against claims relating to the period prior to the acquisition.
- Appraisals prior to closing title.
- Cost of dealing with distributees or legatees residing outside of the state or county, such as recording power of attorney, recording will or exemplification of will, recording satisfaction of state tax.
- 16. Filing satisfaction of mortgage,
- 17. Documentary stamps.
- Photographs of property at acquisition.
- Fees and expenses incurred in the acquisition of sewer rights, and grants.
- 20. Cost of fill to extend bulkhead line over land under water, where riparian rights are held, which is not occasioned by the erection of a structure.
- Sidewalks and curbs constructed by the utility on public property.
- Labor and expenses in connection with securing rights of way, where performed by company employees and company agents.

354. Structures and Improvements

This account shall include the cost in place of structures and improvements used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 25). A sample of items to be included in this account are listed below:

- Architects' plans and specifications including supervision.
- Boilers, furnaces, piping, wiring, fixtures, and machinery for heating, lighting, signaling, ventilating and air conditioning systems, plumbing, vacuum cleaning systems, incinerator and smoke pipe, flues, etc.

- Bulkheads, including dredging, riprap fill, piling, decking, concrete fenders, etc., when exposed and subject to maintenance and replacement.
- Commissions and fees to brokers, agents, architects and others.
- 5. Conduit (not to be removed) with its contents.
- 6. Damages to abutting property during construction.
- 7. Drainage systems.
- 8. Elevators, cranes, hoists, etc., and the machinery for operating them.
- Excavation, including shoring, bracing, bridging, refill and disposal of excess excavated material, cofferdams around foundations, pumping water from cofferdam during construction, test borings.
- 10. Fences and fence curbs (not including protective fences isolating items of equipment, which should be charged to the appropriate equipment account).
- 11. Fire protection systems when forming a part of a structure.
- 12. Flagpole.
- 13. Floor covering (permanently attached).
- 14. Foundations and piers for machinery, constructed as a permanent part of a building or other item listed herein.
- 15. Grading and clearing when directly occasioned by the building of a structure.
- Intrasite communication system, poles, pole fixtures, wires and cables.
- 17. Landscaping, lawns, shrubbery, etc.
- Leases, voiding upon purchase, to secure possession of structures.
- 19. Leased property, expenditures on.
- 20. Lighting fixtures and outside lighting systems.
- 21. Marquee, permanently attached to building.
- 22. Painting, first cost.
- 23. Permanent paving, concrete, brick, flagstone, asphalt, etc., within the property lines.
- 24. Partitions, including movable.
- 25. Permits and privileges.
- 26. Power boards for services to a building.
- 27. Refrigerating systems for general use.
- 28. Retaining walls except when identified with land.
- 29. Roadways.
- 30. Roofs.
- 31. Scales, connected to and forming a part of a structure.
- 32. Water and wastewater systems, for general use.
- Sidewalks, culverts, curbs and streets constructed by the utility on its property.

34. Sprinkling systems.

35. Stacks -- brick, steel, or concrete, when set on foundation forming part of general foundation and steelwork of a building.

36. Steel inspection during construction.

37. Storage facilities constituting a part of a building.

38. Storm doors and windows.

- 39. Temporary heating during construction (net cost).
- 40. Temporary water connection during construction (net cost).
- 41. Temporary shanties and other facilities used during construction (net cost).

42. Topographical maps.

43. Vaults constructed as part of a building.

- 44. Watchmen's sheds and clock systems (net cost when used during construction only).
- 45. Water meters and supply system for a building or for general company purposes.

46. Water supply piping, hydrants and wells.

- 47. Yard surfacing, gravel, concrete, or oil (First cost only).
- 48. Tunnels, intake and discharge when constructed as part of a structure including sluice gates and those constructed to house.

355. Power Generation Equipment

- A. This account shall include the cost installed of any equipment used for the production of power principally used in pumping operations.
- B. Subaccounts shall be maintained hereunder for the cost of equipment used for each type of power generating equipment.

360. Collecting Sewers - Force

This account shall include all sewers which are used to lift sewage from a low elevation to a higher elevation. The force sewer will include that pipe between the discharge outlet of the lift station and the receiving manhole.

361, Collecting Sewers - Gravity

This account shall include the installed cost of all gravity collecting sewers, interceptor, branch, trunk, lateral including service wye, and manholes and lampholes. Manholes shall be included as a separate unit of property.

362. Special Collecting Structures

Inverted siphon shall be included in this account but so

distinctly noted; also any other special designed structures unusual to the wastewater system should be included herein but specifically noted as to what they do.

363. Services to Customers

This account shall include the installed cost of service sewers, from collection sewer to the customer's property or curb line. A sample of items to be included in this account are listed below:

- 1. Jointing and jointing material.
- 2. Manhole or clean-out.
- 3. Municipal inspection and permits
- 4. Pavement disturbed.
- 5. Protection of street openings.
- 6. Tapping saddle.
- 7. Service connection wye shall be included in account 363 instead of account 361 when company owns service sewers to customers property line.

364. Flow Measuring Devices

- A. This account shall include the cost of flow measuring and recording equipment and initial testing used for measuring the quantity of wastewater or wastewater effluent delivered by customers, whether actually in service or held in reserve.
- B. When flow measuring equipment is permanently retired from service, the amount at which it is included herein shall be credited to this account.
- C. The records covering flow measuring equipment shall be so kept that the utility can furnish information as to the number of devices of each type and size in service and in reserve, as well as the location of each device included in this account.

365. Flow Measuring Installations

- A. This account shall include the cost of labor employed, materials used and expenses incurred in connection with the original installation of customers' flow measuring equipment. A sample of items to be included in this account are listed below:
 - Floats, connections, flumes, or wires.
 - Special manhole, boxes, or other separate housing.
- B. When a flow measuring installation is permanently retired from service, the cost thereof shall be credited to this account.

366. Reuse Services

- A. This account shall include the cost installed of reclaimed water service pipes and accessories leading to the customers' premises.
- B. A complete reclaimed water service begins with the connection on the main and extends to but does not include the connection with the customer's meter. A stub service extends from the main to the property line, or the curb stop (curb stop cock).
- C. Services which have been used but have become inactive shall be retired from utility plant in service immediately if there is no prospect for future use.

Items

- Corporation stops or tees.
- 2. Gate valves and boxes.
- 3. Goose necks.
- 4. Jointing and jointing material.
- Municipal inspection or permits.
- 6. Pavements disturbed.
- 7. Pipes.
- 8. Placing pipes and accessories.
- 9. Protection of street openings.
- 10. Service or curb boxes.
- 11. Service or curb stops (curb stop cocks).
- 12. Tapping main.
- 13. Tapping saddle.

367. Reuse Meters and Meter Installations

- A. This account shall include the cost of meters, devices and appurtenances attached thereto, used for measuring the quantity of reclaimed water delivered to users, whether actually in service or held in reserve. It shall also include the cost of labor employed, materials used and expenses incurred in connection with the original installation of a customer's meters and devices and appurtenances attached thereto.
- B. When a meter and/or meter installation is permanently retired from service, the amount at which it is included herein shall be credited to this account.
- C. The records covering meters shall be so kept that the utility can furnish information as to the number of meters of each type and size in service and in reserve as well as the location of each meter included in this account.
- D. A sample of items to be included in this account are listed

below:

- 1. Meters, including badging and initial testing.
- 2. Remote meter registers.
- 3. Installation labor (first installation only).
- 4. Meter coupling.
- 5. Meter bars.
- 6. Meter yokes.
- 7. Meter fittings, connections and shelves.
- 8. Meter vaults or boxes.
- 9. Stops.

Note \underline{A} :--This account shall not include meters for recording the output of a supply or treatment plant, or those located on mains. It includes only those meters to record reclaimed water delivered to customers, including company use and for those used elsewhere in the system if a type available for general use.

Note B:--The utility shall maintain a statistical record to show separately the number of each type and size of meter or group of types and sizes as carried in the continuing property record. Underlying records shall be kept so that the utility can determine readily for each such classification the number of company-owned meters in service (subdivided between active and inactive) and the number of meters carried herein but not in service, the latter to include meters undergoing repairs; and the number of meters in service owned by customers.

370. Receiving Wells

This account shall include the cost of constructing wells at pumping stations or at other junction points along the collecting system, used for intercepting wastewater for clearing and screening, transfer to a pumping well or otherwise further convey it along the collecting system to the treatment plant or point of final

discharge. This account shall include any chemical feed apparatus and holding basins associated with the receiving well.

371. Pumping Equipment

This account shall include the cost installed of pumping equipment driven by electric power or diesel engines. A sample of items to be included in this account are listed below:

- 1. Motors or engines for driving pumps.
- 2. Pumps, including settings, gearing, shafting and belting.
- 3. Sewage piping within station, including valves.
- 4. Auxiliary equipment for motors and pumps such as oiling systems, cooling systems, condensers, etc.

- 5. Electrical power lines and switching.
- Foundations, frames, and bed plates.
- 7. Hoist units.

374. Reuse Distribution Reservoirs

This account shall include the cost in place of reservoirs, tanks and appurtenances used in storing reclaimed water for distribution. A sample of items to be included in this account are listed below:

- Bridges and culverts.
- 2. Clearing land.
- 3. Dams.
- 4. Embankments.
- 5. Fences.
- 6. Foundations.
- 7. Gates and gate houses.
- 8. Landscaping.
- 9. Lighting systems.
- Piping system within reservoirs.
- 11. Retaining walls.
- 12. Roads and paths.
- 13. Rust-proofing apparatus.
- Sewer drain or storm sewer.
- Spillways and channels.
- 16. Standpipes.
- 17. Tanks.
- 18. Towers.
- 19. Valves.

375. Reuse Transmission and Distribution System

- A. This account shall include the cost installed of reclaimed water transmission and distribution mains and appurtenances. A sample of items to be included in this account are listed below:
 - 1. Air chambers.
 - Blow-offs and overflows.
 - Bridges and culverts.
 - Electrolysis control equipment.
 - Gauges and recorders.
 - Jointing and jointing material.
 - 7. Manholes.
 - 8. Meters and appurtenances.
 - 9. Municipal inspection or permits.
 - Pavement disturbed, including cutting and replacing pavement, pavement base and sidewalks.
 - 11. Pipes.
 - 12. Fire mains.
 - Fire Hydrants.

Records supporting this account shall be so kept as to show separately the cost of mains of different sizes and types and of each tunnel, bridge, or river crossing.

380. Treatment and Disposal Equipment

This account shall include the cost installed of apparatus equipment and other facilities used for the treatment of wastewater, disposal of sewage wastes and the treatment of effluent for reuse. A sample of items to be included in this account are listed below:

- Aeration chambers.
- Chemical equipment.
- Disinfection facilities.
- 4. Filters.
- Imhoff tank.
- Land fill equipment and appurtenances.
 Monitoring equipment.
- Oxidation pond or lagoon.
 - 9. Sedimentation equipment.
- 10. Septic tank.
- 11. Screen unit.
- Sludge system.
- 13. Trucks, tractors, or other equipment used primarily for sludge or other waste disposal.
- Package mechanical treatment plant. 14.
- 15. Sedimentation basin.
- 16. Sludge digestion equipment.
- 17. Sludge filtration or dewatering equipment.

381. Plant Sewers

This account shall include the cost installed of plant yard piping and appurtenances, and facilities required to dispose of treatment plant liquid effluent into the outfall sewer line. A sample of items to be included in this account are listed below:

- Unit to unit sections of yard piping.
- 2. Valves and vaults.
- Pipe tunnels and galleries.
- 4. Filter and filter backwash piping.

382. Outfall Sewer Lines

This account shall include the installed cost of sewer line carrying effluent from treatment facility to point of discharge. Includible in this account would be headwall or outlet.

389. Other Plant and Miscellaneous Equipment

This account shall include the cost installed of all other intangible, collection system pumping, treatment and disposal, reclaimed water treatment and reclaimed water distribution plant not provided for in the foregoing accounts.

390. Office Furniture and Equipment

- A. This account shall include the cost of office furniture and equipment owned by the utility and devoted to utility service, and not permanently attached to buildings, except the cost of such furniture and equipment which the utility elects to assign to other plant accounts on a functional basis. A sample of items to be included in this account are listed below:
 - 1. Book cases and shelves.
 - Desk, chairs, and desk equipment.
 - Drafting room equipment.
 - 4. Electronic data processing equipment.
 - 5. Filing, storage and other cabinets.
 - Floor covering.
 - Library and library equipment.
 - Mechanical office equipment such as accounting machines, typewriters, etc.
 - 9. Safes.
 - 10. Tables.
- B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

391. Transportation Equipment

This account shall include the cost of transportation vehicles used for utility purposes. A sample of items to be included in this account are listed below:

- 1. Airplanes.
- 2. Automobiles.
- Bicycles.
- 4. Electrical vehicles.
- 5. Motor trucks.
- Motorcycles.
- Repair cars or trucks.
- 8. Tractors and trailers.
- Other transportation vehicles.

392. Stores Equipment

- A. This account shall include the cost of equipment used for the receiving, shipping, handling and storage of materials and supplies.
- B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location. A sample of items to be included in this account are listed below:
 - 1. Chain falls.
 - 2. Counters.
 - Cranes (portable).
 - 4. Elevating and stacking equipment (portable).
 - 5. Hoists.
 - 6. Lockers.
 - 7. Scales.
 - 8. Shelving.
 - 9. Storage bins.
 - 10. Trucks, hand and power driven.
 - 11. Wheelbarrows.

393. Tools, Shop and Garage Equipment

This account shall include the cost of tools, implements, and equipment used in construction, repair work, general shops and garages and not specifically provided for or includible in other accounts. A sample of items to be included in this account are listed below:

- 1. Air compressors.
- Anvils.
- Automobile repair shop equipment.
- Battery charging equipment.
- 5. Belts, shafts and countershafts.
- 6. Boilers.
- 7. Cable pulling equipment.
- 8. Concrete mixers.
- 9. Drill presses.
- 10. Derricks.
- 11. Electric equipment.
- 12. Engines.
- 13. Forges.
- Furnaces.
- Foundations and settings specially constructed for and not expected to outlast the equipment for which provided.
- 16. Gas producers.
- Gasoline pumps, oil pumps and storage tanks.
- Greasing tools and equipment.

- 19. Hoists.
- 20. Ladders.
- 21. Lathes.
- 22. Machine tools.
- 23. Motor driven tools.
- 24. Motors.
- 25. Pipe threading and cutting tools.
- 26. Pneumatic tools.
- 27. Pumps.
- 28. Riveters.
- 29. Smithing equipment.
- 30. Tool racks.
- 31. Vises.
- 32. Welding apparatus.
- 33. Work benches.

394. Laboratory Equipment

- A. This account shall include the cost installed of laboratory equipment used for general laboratory purposes and not specifically provided for or includible in other departmental or functional plant accounts. A sample of items to be included in this account are listed below:
 - 1. Autoclaves.
 - 2. Barometers.
 - Cameras.
 - 4. Centrifuge.
 - Distilling apparatus.
 - 6. Furnaces.
 - 7. Microscopes.
 - 8. Ovens.
 - 9. Pitometers.
 - 10. Rain gauges.
 - 11. Refrigerators.
 - 12. Scales.
 - 13. Sterilizers.
 - 14. Stop watches.
 - 15. Testing machines.
 - 16. Therometers.
 - Voltmeters.
 - Other bacteriological, electric, chemical hydraulic or research equipment.
- B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

395. Power Operated Equipment

This account shall include the cost of power operated equipment used in construction of repair work exclusive of equipment includible in other accounts. Include, also, the tools and accessories acquired for use with such equipment and the vehicle on which such equipment is mounted. A sample of items to be included in this account are listed below:

- 1. Air compressors, including driving unit and vehicle.
- 2. Back filling machines.
- 3. Boring machines.
- 4. Bulldozers.
- 5. Cranes and joists.
- 6. Diggers.
- 7. Engines.
- Pile drivers.
- 9. Pipe cleaning machines.
- 10. Pipe coating or wrapping machines.
- 11. Tractors Crawler type.
- 12. Trenchers.
- 13. Other power operated equipment.

Note:--It is intended that this account include only such large units as are generally self-propelled or mounted on moveable equipment.

396. Communication Equipment

This account shall include the cost installed of telephone, telegraph and wireless equipment for general use in connection with utility operations. A sample of items to be included in this account are listed below:

- 1. Antennae.
- 2. Booths.
- 3. Cables.
- 4. Distribution boards.
- Extension cords.
- 6. Gongs.
- 7. Handsets, manual and dial.
- 8. Insulators.
 - 9. Intercommunicating sets.
- 10. Loading coils.
- 11. Operators desks.
- 12. Poles and fixtures used wholly for telephone and telegraph wires.
- 13. Radio transmitting and receiving sets.
- 14. Remote control equipment and lines.
- 15. Sending keys.
- 16. Storage batteries.

- 17. Switchboards.
- Teleautograph circuit connections.
- Telegraph receiving sets.
- 20. Telephone and telegraph circuits.
- 21. Testing instruments.
- 22. Towers.
- Underground conduit used wholly for telephone or telegraph wires and cable wires.

397. Miscellaneous Equipment

This account shall include the cost of equipment, apparatus, etc., used in utility operations, and which is not includible in any other account. A sample of items to be included in this account are listed below:

- Hospital and infirmary equipment.
- Kitchen equipment.
- Recreation equipment.
- 4. Radios.
- Restaurant equipment.
- Soda fountains.
- Operator's cottage furnishings.
- 8. Electric signs advertising the corporate name or symbol, plant or facility name, or otherwise serving only the general purpose of acquainting the public with the facilities and services of the utility.
- 9. Other miscellaneous equipment.

Note: -- Miscellaneous equipment of the nature indicated above wherever practicable shall be included in the utility plant accounts on a functional basis.

398. Other Tangible Plant

This account shall include the cost of tangible utility plant not provided for elsewhere.

PUBLIC UTILITY CODE (66 PA.C.S.) - VALUATION OF ACQUIRED WATER AND WASTEWATER SYSTEMS FOR RATEMAKING PURPOSES

Act of Apr. 14, 2016, P.L. 76, No. 12

Cl. 66

Session of 2016 No. 2016-12

HB1326

AN ACT

Amending Title 66 (Public Utilities) of the Pennsylvania Consolidated Statutes, in rates and distribution systems, providing for valuation of acquired water and wastewater systems for ratemaking purposes.

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. Title 66 of the Pennsylvania Consolidated Statutes is amended by adding a section to read:

§ 1329. Valuation of acquired water and wastewater systems.

- (a) Process to establish fair market value of selling utility. --Upon agreement by both the acquiring public utility or entity and the selling utility, the following procedure shall be used to determine the fair market value of the selling utility:
 - (1) The commission will maintain a list of utility valuation experts from which the acquiring public utility or entity and selling utility will choose.
 - (2) Two utility valuation experts shall perform two separate appraisals of the selling utility for the purpose of establishing its fair market value.
 - (3) Each utility valuation expert shall determine fair market value in compliance with the Uniform Standards of Professional Appraisal Practice, employing the cost, market and income approaches.
 - (4) The acquiring public utility or entity and selling utility shall engage the services of the same licensed engineer to conduct an assessment of the tangible assets of the selling utility. The assessment shall be incorporated into the appraisal under the cost approach required under paragraph (3).
 - (5) Each utility valuation expert shall provide the completed appraisal to the acquiring public utility or entity and selling utility within 90 days of execution of the service contract.
 - (b) Utility valuation experts. --
 - (1) The utility valuation experts required under subsection (a) shall be selected as follows:
 - (i) one shall be selected by the acquiring public utility or entity; and
 - (ii) one shall be selected by the selling utility.
 - (2) The utility valuation experts shall not:
 - (i) derive any material financial benefit from the sale of the selling utility other than fees for services rendered; or
 - (ii) be an immediate family member of a director, officer or employee of either the acquiring public utility, entity or selling utility within a 12-month period of the date of hire to perform an appraisal.
 - (3) Fees paid to utility valuation experts may be included in the transaction and closing costs associated with acquisition by the acquiring utility or entity. Fees eligible for inclusion may be of an amount not exceeding 5% of the fair

market value of the selling utility or a fee approved by the commission.

- (c) Ratemaking rate base. -- The following apply:
- (1) The ratemaking rate base of the selling utility shall be incorporated into the rate base of:
 - (i) the acquiring public utility during the acquiring public utility's next base rate case; or

(ii) the entity in its initial tariff filing.

(2) The ratemaking rate base of the selling utility shall be the lesser of the purchase price negotiated by the acquiring public utility or entity and selling utility or the fair market value of the selling utility.

(d) Acquisitions by public utility. -- The following apply:

- (1) If the acquiring public utility and selling utility agree to use the process outlined in subsection (a), the acquiring public utility shall include the following as an attachment to its application for commission approval of the acquisition filed pursuant to section 1102 (relating to enumeration of acts requiring certificate):
 - (i) Copies of the two appraisals performed by the utility valuation experts under subsection (a).
 - (ii) The purchase price of the selling utility as agreed to by the acquiring public utility and selling utility.
 - $(i\bar{i}i)$ The ratemaking rate base determined pursuant to subsection (c)(2).
 - (iv) The transaction and closing costs incurred by the acquiring public utility that will be included in its rate base.
 - (v) A tariff containing a rate equal to the existing rates of the selling utility at the time of the acquisition and a rate stabilization plan, if applicable to the acquisition.
- (2) The commission shall issue a final order on an application submitted under this section within six months of the filing date of an application meeting the requirements of subsection (d)(1).
- (3) If the commission issues an order approving the application for acquisition, the order shall include:
 - (i) The ratemaking rate base of the selling utility, as determined under subsection (c)(2).
 - (ii) Additional conditions of approval as may be required by the commission.
- (4) The tariff submitted pursuant to subsection (d)(1)(v) shall remain in effect until such time as new rates are approved for the acquiring public utility as the result of a base rate case proceeding before the commission. The acquiring public utility may collect a distribution system improvement charge during this time, as approved by the commission under this chapter.
- (5) The selling utility's cost of service shall be incorporated into the revenue requirement of the acquiring public utility as part of the acquiring utility's next base rate case proceeding. The original source of funding for any part of the water or sewer assets of the selling utility shall not be relevant to determine the value of said assets.
- (e) Acquisitions by entity.—An entity shall provide all the information required by subsection (d)(1) to the commission as an attachment to its application for a certificate of public convenience filed pursuant to section 1102.
 - (f) Postacquisition projects. -- The following apply:
 - (1) An acquiring public utility's postacquisition improvements that are not included in a distribution improvement charge shall accrue allowance for funds used during construction after the date the cost was incurred until the asset has been in service for a period of four years or until

the asset is included in the acquiring public utility's next base rate case, whichever is earlier.

- (2) Depreciation on an acquiring public utility's postacquisition improvements that have not been included in the calculation of a distribution system improvement charge shall be deferred for book and ratemaking purposes.
- (g) Definitions.--The following words and phrases when used in this section shall have the meanings given to them in this section unless the context clearly indicates otherwise:

"Acquiring public utility." A water or wastewater public utility subject to regulation under this title that is acquiring a selling utility as the result of a voluntary arm's-length transaction between the buyer and seller.

"Allowance of funds used during construction." An accounting practice that recognizes the capital costs, including debt and equity funds that are used to finance the construction costs of an improvement to a selling utility's assets by an acquiring public utility.

"Entity." A person, partnership or corporation that is acquiring a selling utility and has filed or whose affiliate has filed an application with the commission seeking public utility status pursuant to section 1102.

"Fair market value." The average of the two utility valuation expert appraisals conducted under subsection (a)(2).

"Ratemaking rate base." The dollar value of a selling utility which, for postacquisition ratemaking purposes, is incorporated into the rate base of the acquiring public utility or entity.

"Rate stabilization plan." A plan that will hold rates constant or phase rates in over a period of time after the next base rate case.

"Selling utility." A water or wastewater company located in this Commonwealth, owned by a municipal corporation or authority that is being purchased by an acquiring public utility or entity as the result of a voluntary arm's-length transaction between the buyer and seller.

"Utility valuation expert." A person hired by an acquiring public utility and selling utility for the purpose of conducting an economic valuation of the selling utility to determine its fair market value.

Section 2. This act shall take effect in 60 days.

APPROVED--The 14th day of April, A.D. 2016.

TOM WOLF